

A Global Experiment on Motivating Social Distancing During the COVID-19 Pandemic

Nicole Legate (co-first author)	Illinois Institute of Technology, Department of Psychology, Chicago, Illinois, United States	nlegate@iit.edu
Thuy-vy Nguyen (co-first author)	Durham University, Department of Psychology, Durham, United Kingdom	thuy-vy.nguyen@durham.ac.uk
Netta Weinstein	University of Reading, Department of Psychology, Reading, United Kingdom	n.weinstein@reading.ac.uk
Arlen Moller	Illinois Institute of Technology, Department of Psychology, Chicago, Illinois, United States	amoller@iit.edu
Lisa Legault	Clarkson University, Department of Psychology, Potsdam, New York, United States	llegault@clarkson.edu
Zahir Vally	United Arab Emirates University, Al Ain, United Arab Emirates	zahir.vally@uaeu.ac.ae
	Wolfson College, University of Oxford, Oxford, United Kingdom	
Zuzanna Tajchman	University of Minnesota, Twin Cities, Department of Psychology, Minneapolis, United States	ztajchma@umn.edu
Andras N. Zsido	Institute of Psychology, University of Pécs, Pécs, Hungary	zsido.andras@pte.hu
Miha Zrimsek	University of Ljubljana, Department of Translation Studies, Faculty of Arts , Ljubljana, Slovenia	zrimsekm@gmail.com
Zhang Chen	Ghent University, Department of Experimental Psychology, Ghent, Belgium	zhang.chen@ugent.be
Ignazio Ziano	Grenoble Ecole de Management, Grenoble, France	ziano.ignazio@gmail.com
Zoi Gialitaki	Independent Researcher	z.gialitaki@gmail.com
Chris D Ceary	Indiana University of Pennsylvania, Indiana, United States	cceary@gmail.com
Yuna Jang	Independent Researcher	yunajang92@gmail.com
Yijun Lin	University of Florida, Department of Psychology, Gainesville, United States	yijun.lin@ufl.edu
Yoshihiko Kunisato	Senshu University, Department of Psychology, Kawasaki , Japan	ykunisato@psy.senshu-u.ac.jp
Yuki Yamada	Kyushu University, Faculty of Arts and Science, Fukuoka, Japan	yamadayuk@gmail.com
Qinyu Xiao	University of Hong Kong, Department of Psychology, Hong Kong SAR, China	xqy1020@connect.hku.hk

MOTIVATING SOCIAL DISTANCING

Xiaoming Jiang	Shanghai International Studies University, Institute of Linguistics, Shanghai, China	xiaoming.jiang@shisu.edu.cn
Xinkai Du	University of Amsterdam, Amsterdam, Netherlands	xinkai.du@student.uva.nl
Elvin Yao	Claremont Graduate University, Claremont, United States	xiaohui.yao@cgu.edu
William S. Ryan	University of Toronto, St George, Canada	ws.ryan@utoronto.ca
John Paul Wilson	Montclair State University, Montclair, United States	johnpaulw@gmail.com
Wilson Cyrus-Lai	INSEAD, Singapore	wilson-cyrus.lai@insead.edu
William Jimenez-Leal	Universidad de los Andes, Department of Psychology, Bogotá, Colombia	w.jimenezleal@uniandes.edu.co
Wilbert Law	The Education University of Hong Kong, Department of Psychology, Hong Kong, SAR China	wlaw@eduhk.hk
Wenceslao Unanue	Universidad Adolfo Ibáñez, School of Business, Santiago, Chile	wenceslao.unanue@uai.cl
W. Matthew Collins	Nova Southeastern University, Department of Psychology and Neuroscience, Fort Lauderdale, United States	wc292@nova.edu
Karley L Richard	Indiana University of Pennsylvania, Indiana, United States	vymbc@iup.edu
Marek Vranka	Charles University, Prague, Czechia	vranka.marek@gmail.com
Vladislav Ankushev	HSE University, Moscow, Russia	vladislavankushev@yandex.ru
Vidar Schei	NHH Norwegian School of Economics, Department of Strategy and Management, Bergen, Norway	vidar.schei@nhh.no
Chloe DePaola	Indiana University of Pennsylvania, Indiana, United States	vhvp@iup.edu
Veronika Lerche	Heidelberg University, Heidelberg, Germany	veronika.lerche@psychologie.uni-heidelberg.de
Vanja Kovic	University of Belgrade, Laboratory for Neurocognition and Applied Cognition, Faculty of Philosophy, Belgrade, Serbia	vanja.kovic@f.bg.ac.rs
Valerija Križanić	Josip Juraj Strossmayer University of Osijek, Department of Psychology, Faculty of Humanities and Social Sciences, Osijek, Croatia	vkrizanic@ffos.hr
Veselina Hristova Kadreva	New Bulgarian University, Department of Cognitive Science and Psychology, Sofia, Bulgaria	v.kadreva@gmail.com
Vera Cubela Adoric	University of Zadar, Department of Psychology, Zadar, Croatia	vcubela@unizd.hr
Ulrich S. Tran	University of Vienna, Department of Cognition, Emotion, and Methods in Psychology, Faculty of Psychology, Vienna, Austria	ulrich.tran@univie.ac.at
Siu Kit Yeung	The University of Hong Kong, Hong Kong, SAR China	u3517520@connect.hku.hk

MOTIVATING SOCIAL DISTANCING

Widad Hassan	University of East London, Department of Psychology, Dubai, United Arab Emirates	u1944146@uel.ac.uk
Ralph Houston	Independent Researcher	translate@rjfhouston.com
Michael A. Machin	University of Southern Queensland, Toowoomba, Australia	tony.machin@usq.edu.au
Tiago J. S. Lima	University of Brasília, Department of Social and Work Psychology, Brasília, Brazil	tiago.lima@unb.br
Thomas Ostermann	Witten/Herdecke University, Department of Psychology and Psychotherapy, Witten, Germany	thomas.ostermann@uni-wh.de
Thomas Frizzo	Université de Lorraine, Université de Strasbourg, CNRS, BETA, Nancy, France	thomas.frizzo@gmail.com
Therese E Sverdrup	NHH Norwegian School of Economics, Department of Strategy and Management, Bergen, Norway	therese.sverdrup@nhh.no
Thea House	Macquarie University, Sydney, Australia University of Bristol, Bristol, United Kingdom	thea.house@students.mq.edu.au
Tripat Gill	Wilfrid Laurier University, Lazaridis School of Business and Economics, Waterloo, Canada	tgill@wlu.ca
Maksim Fedotov	Russian Academy of Sciences, Institute for Linguistic Studies, St. Petersburg, Russia	tequila.lime@gmail.com
Tamar Paltrow	Independent Researcher	tepaltrow@aol.com
Teodor Jernsäter	Stockholm University, Department of Psychology, Stockholm, Sweden	teodor.jernsather@psychology.su.se
Tasnim Rahman	University of Dhaka, Dhaka, Bangladesh	tasnimrahman621@gmail.com
Tanya Machin	University of Southern Queensland, Toowoomba, Australia	Tanya.Machin@usq.edu.au
Maria Koptjevskaja-Tamm	Stockholm University, Department of Linguistics, Stockholm, Sweden	tamm@ling.su.se
Thomas J. Hostler	Manchester Metropolitan University, Department of Psychology, Manchester, United Kingdom	t.hostler@mmu.ac.uk
Tatsunori Ishii	Waseda University, Faculty of Science and Engineering, Tokyo, Japan	t.ishii1108@gmail.com
Barnabas Szaszi	ELTE Eötvös Loránd University, Institute of Psychology, Budapest, Hungary	szaszi.barnabas@ppk.elte.hu
Sylwia Adamus	Jagiellonian University, Institute of Psychology, Krakow, Poland	sylwiadamus@gmail.com
Lilian Suter	ZHAW Zurich University of Applied Sciences, School of Applied Psychology, Winterthur, Switzerland	lilian.suter@zhaw.ch
Suparpit M. von Bormann	Suranaree University of Technology, Nakhon Ratchasima, Thailand	suparpit@gmail.com
Sumaiya Habib	University of Dhaka, Department of Clinical Psychology, Dhaka, Bangladesh	sumaiyahabib14@gmail.com

MOTIVATING SOCIAL DISTANCING

Anna Studzinska	Icam Toulouse, Humanities Department, Toulouse, France	studzinna@gmail.com
Dragana Stojanovska	PSA Psihesko, Skopje, North Macedonia	stojanovskadragana.ds@gmail.com
Steve M. J. Janssen	University of Nottingham Malaysia School of Psychology, Semenyih, Malaysia	steve.janssen@nottingham.edu.my
Stefan Stieger	Karl Landsteiner University of Health Sciences, Department of Psychology and Psychodynamics, Krems an der Donau, Austria	stefan.stieger@kl.ac.at
Stefan E. Schulenberg	University of Mississippi, Department of Psychology, Oxford, Mississippi, United States University of Mississippi, Clinical-Disaster Research Center, Oxford, Mississippi, United States	sschulen@olemiss.edu
Srinivasan Tatachari	T A Pai Management Institute, Manipal Academy of Higher Education, Karnataka, India	sринi.tata@gmail.com
Soufian Azouaghe	Mohammed V University in Rabat, Department of Psychology, Rabat, Morocco Université Grenoble Alpes, LIP/PC2S, Grenoble, France	s.azouaghe@um5r.ac.ma
Piotr Sorokowski	University of Wroclaw, Institute of Psychology, Wroclaw, Poland	sorokowskipiotr@yahoo.co.uk
Agnieszka Sorokowska	University of Wroclaw, Institute of Psychology, Wroclaw, Poland	Sorokowska@gmail.com
Xin Song	University of Minnesota, Twin Cities, Department of Psychology, Minneapolis, United States	songx953@umn.edu
Sofie Morbée	Department of Developmental, Personality and Social Psychology, Ghent University	Sofie.Morbee@UGent.be
Savannah Lewis	Ashland University, Ashland, United States	slewis5920@gmail.com
Sladjana Sinkolova	PSA Psihesko, Skopje, North Macedonia	sinkolova.s@gmail.com
Dmitry Grigoryev	National Research University Higher School of Economics, Moscow, Russia	dgrigoryev@hse.ru
Shira Meir Drexler	Ruhr University Bochum, Department of Neurology, Mauritius Hospital Meerbusch, Meerbusch, Germany	shira.meir@gmail.com
Shimrit Daches	Bar-Ilan University, Department of Psychology, Ramat Gan, Israel	shimrit.daches@biu.ac.il
Shelby L. Levine	McGill University, Montreal Canada	shelby.levine@mail.mcgill.ca
Shawn N. Geniole	University of the Fraser Valley, Department of Psychology, Abbotsford, Canada	shawngeniole@gmail.com
Shahunur Akter	University of Dhaka, Dhaka, Bangladesh	Shahinoorakter27@gmail.com
Selena Vračar	University of Belgrade, Department of Psychology, Belgrade, Serbia	selenavracar1410@gmail.com
Sébastien Massoni	Université de Lorraine, Université de Strasbourg, CNRS, BETA, Nancy, France	sebastien.massoni@gmail.com

MOTIVATING SOCIAL DISTANCING

Sebastiano Costa	Università degli Studi della Campania Luigi Vanvitelli, Caserta, Italy	sebastiano.costa@unicampania.it
Saša Zorjan	University of Maribor, Department of Psychology, Maribor, Slovenia	sasa.zorjan1@um.si
Eylul Sarioguz	Sapienza University of Rome, Doctoral School of Psychological Sciences, Department of Developmental Psychology and Socialization Processes, Rome, Italy	sarioguzeylul@gmail.com
Sara Morales Izquierdo	University of Warwick, Coventry United Kingdom	sara.morales-izquierdo@warwick.ac.uk
Sarah Suzette Tshonda	Independent Researcher	sarahsuzette91@gmail.com
Sara G Alves	University of Porto, Center for Psychology at University of Porto, Porto, Portugal	up201304933@edu.fpce.up.pt
Sara Pöntinen	Åbo Akademi University, Faculty of Arts, Psychology and Theology, Turku, Finland	sara.pontinen@gmail.com
Sara Álvarez Solas	Universidad Regional Amazónica Ikiam, Grupo de investigación en Biogeografía y Ecología Espacial (BioGeoE2), Tena, Ecuador	sara.alvarez.solas@gmail.com
Santiago Ordoñez-Riaño	University of Guadalajara, Guadalajara, Colombia	santiagoordz@gmail.com
Sanja Batić Očovaj	Union University, Faculty of Legal and Business Studies Dr Lazar Vrkatic, Department of Psychology, Novi Sad, Serbia	sanja.batic@gmail.com
Sandersan Onie	Black Dog Institute, Sydney, Australia University of New South Wales, School of Psychology, Sydney, Australia Emotional Health for All Foundation, Jakarta, Indonesia	sandy.onie@gmail.com
Samuel Lins	University of Porto, Center for Psychology at University of Porto, Porto, Portugal	samuellins@fpce.up.pt
Theresa Biberauer	University of Cambridge, Cambridge, United Kingdom Stellenbosch University, Stellenbosch, South Africa University of the Western Cape, Cape Town, South Africa	samt23@gmail.com
Sami Çoksan	Erzurum Technical University, Department of Psychology, Erzurum, Turkey	sami.coksan@erzurum.edu.tr
Sakda Khumkom	Suranaree University of Technology, Nakhon Ratchasima, Thailand	sakdakh@sut.ac.th
Asli Sacakli	Independent Researcher	sacakliasli@gmail.com
Susana Ruiz-Fernández	FOM University of Applied Sciences, Essen, Germany Leibniz-Institut für Wissensmedien, Tübingen, Germany Eberhard Karls University, LEAD Research Network, Tübingen, Germany	s.ruiz-fernandez@iwm-tuebingen.de
Sandra J. Geiger	University of Amsterdam, Department of Psychology, Faculty of Social and Behavioural Sciences, Amsterdam, Netherlands	sandra.geiger@univie.ac.at

MOTIVATING SOCIAL DISTANCING

Saeideh FatahModares	Urmia University, Department of Sport Management, Faculty of Physical Education and Sport Science, Urmia, Iran	s.fmodares@yahoo.com
Radoslaw B. Walczak	University of Opole, Institute of Psychology, Opole, Poland	rwalczak@uni.opole.pl
Ruben Betlehem	Josip Juraj Strossmayer University of Osijek, Faculty of Humanities and Social Sciences, Department of Psychology, Osijek, Croatia	rbetlehem@ffos.hr
Roosevelt Vilar	Universidade Cruzeiro do Sul, São Paulo, Brazil	roosevelt.vilar@gmail.com
Rodrigo A. Cárcamo	University of Magallanes, Department of Psychology, Punta Arenas, Chile	rodrigo.carcamo@umag.cl
Robert M Ross	Macquarie University, Department of Psychology, Sydney, Australia	robross46@gmail.com
Randy McCarthy	Northern Illinois University Department of Psychology, DeKalb, United States	rmccarthy3@niu.edu
Tonia Ballantyne	Indiana University of Pennsylvania, Indiana, United States	rjxx@iup.edu
Erin C. Westgate	University of Florida, Department of Psychology, Gainesville, United States	erinwestgate@ufl.edu
Richard M. Ryan	Australian Catholic University, Institute for Positive Psychology and Education, Sydney, Australia	richard.ryan@acu.edu.au
Rafael Gargurevich	Pontifical Catholic University of Peru, Lima, Peru	rgargurevich@pucp.pe
Reza Afhami	Tarbiat Modares University, Department of Art Studies, Tehran, Iran	Afhami@modares.ac.ir
Dongning Ren	Tilburg University, Department of Social Psychology, Tilburg, Netherlands	d.ren@uvt.nl
Renan P. Monteiro	Federal University of Mato Grosso, Department of Psychology, Cuiabá, Brazil	renanpmonteiro@gmail.com
Ulf-Dietrich Reips	University of Konstanz, Department of Psychology, Konstanz, Switzerland	reips@uni-konstanz.de
Niv Reggev	Ben Gurion University, Department of Psychology and Zlotowski Center for Neuroscience, Beersheba, Israel	reggevn@bgu.ac.il
Robert J Calin-Jageman	Dominican University, Department of Psychology, River Forest, United States	rcalinjageman@dom.edu
Razieh Pourafshari	University of Tehran, Department of Psychology, Faculty of Psychology and Education, Tehran, Iran	razieh.pourafshari@gmail.com
Raquel Oliveira	Iscte-Instituto Universitário de Lisboa, CIS-IUL, Lisbon, Portugal Intelligent Agents and Synthetic Characters Group (GAIPS), INESC-ID, Lisbon, Portugal	rsaoa@iscte-iul.pt
Mina Nedelcheva-Datsova	Sofia University St. Kliment Ohridski, Department of General, Experimental, Developmental, and Health Psychology, Sofia, Bulgaria	raiskopruskalo@gmail.com

MOTIVATING SOCIAL DISTANCING

Rima-Maria Rahal	Max Planck Institute for Research on Collective Goods, Bonn, Germany Tilburg University, Tilburg, Netherlands	rahal@coll.mpg.de
Rafael R Ribeiro	Iscte - Instituto Universitário de Lisboa, CIS-IUL, Lisbon, Portugal	rafael_ribeiro@iscte-iul.pt
Theda Radtke	University of Wuppertal, Department of Psychology, Wuppertal, Germany	Radtke@uni-wuppertal.de
Rachel Searston	The University of Adelaide, Adelaide, Australia	rachel.searston@adelaide.edu.au
Rachadaporn Jai-ai	Suranaree University of Technology, Nakhon Ratchasima, Thailand	rachadaporn@sut.ac.th
Redeate Habte	Jacobs University Bremen, Bremen, Germany	redhabte@gmail.com
Przemysław Zdybek	University of Opole, Institute of Psychology, Opole, Poland	pzdzybek@uni.opole.pl
Sau-Chin Chen	Tzu-Chi University, Department of Human Development and Psychology, Hualien, Taiwan	pmsp96@gmail.com
Piyaorn Wajanatinapart	Suranaree University of Technology, Nakhon Ratchasima, Thailand	piyaorn@g.sut.ac.th
Princess Lovella G. Maturan	University of the Philippines Diliman, Department of Psychology, Quezon City, Philippines	pgmaturan@up.edu.ph
Jennifer T Perillo	Indiana University of Pennsylvania, Department of Psychology, Indiana, United States	jperillo@iup.edu
Peder Mortvedt Isager	Eindhoven University of Technology, Department of Industrial Engineering and Innovation Sciences, Eindhoven, Netherlands	pederisager@gmail.com
Pavol Kačmár	Pavol Jozef Šafárik University in Košice, Department of Psychology, Faculty of Arts, Košice, Slovakia	pavol.kacmar@upjs.sk
Paulo Manuel Macapagal	Arellano University, School of Psychology, Manila, Philippines	paulo.macapagal@arellano.edu.ph
Michael R. Maniaci	Department of Psychology, Florida Atlantic University	mmaniaci@fau.edu
Paulina Szwed	Jagiellonian University, Krakow, Poland	paulina.szwed@uj.edu.pl
Paul H. P. Hanel	University of Essex, Essex, United Kingdom	p.hanel@essex.ac.uk
Paul A G Forbes	University of Vienna, Social, Cognitive and Affective Neuroscience Unit, Department of Cognition, Emotion, and Methods in Psychology, Faculty of Psychology, Vienna, Austria	paul.forbes@univie.ac.at
Patricia Arriaga	Iscte - Instituto Universitário de Lisboa, CIS-IUL, Lisbon, Portugal	patricia.arriaga@iscte-iul.pt
Bastien Paris	Université Grenoble Alpes, Grenoble, France	paris.bastien@hotmail.com
Neha Parashar	Sampurna Montfort College, Bangalore, India	parashar3@gmail.com
Konstantinos Papachristopoulos	Concordia University, Montreal, Canada	papachristopouloskostas@gmail.com

MOTIVATING SOCIAL DISTANCING

	Athens University of Economics and Business, Athens, Greece	
Pablo Sebastián Correa	Universidad Nacional de Córdoba (UNC), Facultad de Psicología; Instituto de Investigaciones Psicológicas (IIPsi) - Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) - UNC, Córdoba, Argentina	pablocorrea@unc.edu.ar
Ondřej Kácha	University of Cambridge, Department of Psychology, Cambridge, United Kingdom	oek22@cantab.ac.uk
Márcia Bernardo	Universidade do Porto, Faculdade de Psicologia e Ciências da Educação, Porto, Portugal	oliviabernardo95@gmail.com
Olatz Campos	University of Deusto, Bilbao, Spain	olatzcampos4@gmail.com
Olalla Niño Bravo	Independent Researcher	olallanino3@gmail.com
Oscar J Galindo-Caballero	Universidad de los Andes, Department of Psychology, Bogotá, Colombia Universidad Manuela Beltrán, Faculty of Education, Human and Social Sciences, Bogotá, Colombia.	oj.galindo10@uniandes.edu.co
Chisom Esther Ogbonnaya	Alex Ekwueme Federal University, Ndufu-Alike, Nigeria	ogbonnaya.chisom@yahoo.com
Olga Bialobrzeska	SWPS University of Social Sciences and Humanities, Warsaw, Poland	obialobrzeska@swps.edu.pl
Natalia Kiselnikova	Psychological Institute of Russian Academy of Education, Moscow, Russia	nv_psy@mail.ru
Nicolle Simonovic	Kent State University, Department of Psychological Sciences, Kent, United States	nsimonov@kent.edu
Noga Cohen	University of Haifa, Department of Special Education and The Edmond J. Safra Brain Research Center for the Study of Learning Disabilities, Haifa, Israel	noga.cohen@edu.haifa.ac.il
Nora L. Nock	Case Western Reserve University, Department of Population and Quantitative Health Sciences, Cleveland, Ohio, United States	nln@case.edu
Alejandrina Hernandez	Universidad Nacional Autónoma de México, Mexico City, Mexico	nina.hp@hotmail.com
Cecilie Thøgersen-Ntoumani	University of Southern Denmark, Department of Sports Sciences and Clinical Biomechanics, Odense, Denmark	cthøgersen@health.sdu.dk
Nikos Ntoumanis	University of Southern Denmark, Department of Sports Sciences and Clinical Biomechanics, Odense, Denmark	nntoumanis@health.sdu.dk
Niklas Johannes	University of Oxford, Oxford Internet Institute, Oxford, United Kingdom	niklas.johannes@oii.ox.ac.uk
Nihan Albayrak-Aydemir	London School of Economics and Political Science, London, United Kingdom & Open University, Milton Keynes, United Kingdom	n.albayrak1@lse.ac.uk
Nicolas Say	Prague University of Economics and Business, Prague, Czechia	sayn00@vse.cz

MOTIVATING SOCIAL DISTANCING

Andreas B. Neubauer	DIPF Leibniz Institute for Research and Information in Education, Frankfurt am Main, Germany	neubauer.andreas@dipf.de
Neil I. Martin	University of Southern Queensland, Toowoomba, Australia	neil.martin@usq.edu.au
Neil Levy	Macquarie University, Department of Philosophy, Sydney, Australia	neil.levy@mq.edu.au
Nathan Torunsky	University of Minnesota, Twin Cities, Department of Psychology, Minneapolis, United States	torun005@umn.edu
Natasha van Antwerpen	University of Adelaide, Adelaide, Australia	vananata10@gmail.com
Natalia Van Doren	The Pennsylvania State University, Department of Psychology, State College, United States	nataliavandoren@psu.edu
Naoyuki Sunami	University of Delaware, Newark, United States	nsunami@udel.edu
Nikolay R. Rachev	Sofia University St. Kliment Ohridski, Department of General, Experimental, Developmental, and Health Psychology, Sofia, Bulgaria	nrrachev@phls.uni-sofia.bg
Nadyanna M Majeed	Singapore Management University, School of Social Sciences, Singapore	nadyannam.2020@msps.smu.edu.sg
Nadya-Daniela Schmidt	University of Hildesheim, Institute of Psychology, Hildesheim, Germany	schmidt@uni-hildesheim.de
Khaoula Nadif	Independent Researcher	nadifkhaoula@gmail.com
Nadia S Corral-Frías	Universidad de Sonora, Sonora, Mexico	nadia.corral@unison.mx
Nihal Ouherrou	Paul Valéry Montpellier 3 University, Lhumain Laboratory, Montpellier, France	niha.ouherrou@umontpellier.fr
Nida Abbas	Jacobs University Bremen, Bremen, Germany	adinxxabbas@gmail.com
Myrto Pantazi	University of Oxford, Oxford Internet Institute, Oxford, United Kingdom	myrto.pantazi@oii.ox.ac.uk
Marc Y Lucas	Universidad de Sonora, Department of Psychology, Sonora, Mexico	mylucas@email.arizona.edu
Martin R. Vasilev	Bournemouth University, Department of Psychology, Poole, United Kingdom	mvasilev@bournemouth.ac.uk
María Victoria Ortiz	Universidad Nacional de Córdoba (UNC), Facultad de Psicología; Instituto de Investigaciones Psicológicas (IIPsi) - Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) - UNC, Córdoba, Argentina	mv.ortiz@unc.edu.ar
Muhammad Mussaffa Butt	GC University, Lahore, Pakistan	mussaffa@gmail.com
Murathan Kurfalı	Stockholm University, Linguistics Department, Stockholm, Sweden	murathan.kurfali@ling.su.se
Muhib Kabir	Bangladesh Clinical Psychology Society, Dhaka, Bangladesh	Muhib_cu@yahoo.com
Rafał Muda	Maria Curie-Skłodowska University, Faculty of Economics, Lublin, Poland	muda.research@gmail.com

MOTIVATING SOCIAL DISTANCING

María del Carmen MC Tejada Rivera	University of Desarrollo, Faculty of Psychology, Santiago, Chile	mtejadar@udd.cl
Miroslav Sirota	University of Essex, Essex, United Kingdom	msirota@essex.ac.uk
Martin Seehuus	Middlebury College, Department of Psychology, Middlebury, United States University of Vermont, Vermont Psychological Services, Burlington, United States	mseehuus@middlebury.edu
Michał Parzuchowski	SWPS University of Social Sciences and Humanities in Sopot, Center for Research on Cognition and Behavior, Sopot, Poland	mparzuchowski@swps.edu.pl
Mónica Toro	University of Desarrollo, Faculty of Psychology, Santiago, Chile	motorov@udd.cl
Monika Hricova	Pavol Jozef Šafárik University in Košice, Department of Psychology, Faculty of Arts, Košice, Slovakia	monika.hricova@upjs.sk
Mónica Alarcón Maldonado	Independent Researcher	
Panagiotis Rentzelas	Department of Psychology and Human Development, IOE UCL's Faculty of Education and Society, University College London, London, United Kingdom	p.rentzelas@ucl.ac.uk
Maarten Vansteenkiste	Department of Developmental, Personality and Social Psychology, Ghent University	Maarten.Vansteenkiste@ugent.be
Molly A. Metz	University of Toronto, Toronto, Canada	molly.metz@utoronto.ca
Magdalena Marszałek	SWPS University of Social Sciences and Humanities, Warsaw, Poland	mmarszalek4@st.swps.edu.pl
Maria Karekla	University of Cyprus, Nicosia, Cyprus	mkarekla@ucy.ac.cy
Giovanna Mioni	University of Padova, Department of General Psychology, Padua, Italy	giovanna.mioni@unipd.it
Minke Jasmijn Bosma	University of Amsterdam, Department of Psychology, Amsterdam, Netherlands	minke.bosma@student.uva.nl
Minja Westerlund	Åbo Akademi University, Faculty of Arts, Psychology and Theology, Turku, Finland	minja.westerlund@abo.fi
Milica Vdovic	Singidunum University, Faculty of Media and Communications, Department of Psychology, Belgrade, Serbia	milica.vdovic@fmk.edu.rs
Michał Bialek	University of Wrocław, Institute of Psychology, Wrocław, Poland	michal.bialek3@uw.edu.pl
Miguel A. Silan	University of the Philippines Diliman, Quezon City, Philippines	MiguelSilan@gmail.com
Michele Anne	University of Nottingham Malaysia, School of Psychology, Semenyih, Malaysia	michele.anne@dmu.ac.uk
Michał Misiak	University of Wrocław, Institute of Psychology, Wrocław, Poland	michal.misiak@uw.edu.pl

MOTIVATING SOCIAL DISTANCING

	University of Oxford, School of Anthropology & Museum Ethnography, Oxford, United Kingdom	
Maria C. Gugliandolo	Università di Messina, Dipartimento DIMED, Messina, Italy	mariacristina.gugliandolo@unime.it
Maurice Grinberg	New Bulgarian University, Department of Cognitive Science and Psychology, Research Center for Cognitive Science, Sofia, Bulgaria	mgrinberg@nbu.bg
Mariagrazia Capizzi	Université Paul Valéry Montpellier 3, Montpellier, France	mgcapizzi@hotmail.com
Mauricio F. Espinoza Barria	University of Desarrollo, Faculty of Psychology, Santiago, Chile	mespinozab@udd.cl
Merve A. Kurfali	Bilkent University, Department of Political Science, Ankara, Turkey	merve.akdemir@bilkent.edu.tr
Michael C Mensink	University of Wisconsin-Stout, Department of Psychology, Menomonie, United States	mensinkm@uwstout.edu
Mikayel Harutyunyan	Charles University, Institute of Economic Studies, Prague, Czechia	75686400@fsv.cuni.cz
Meetu Khosla	University of Delhi, Psychology Department, DRC, Delhi, India	meetukhosla@yahoo.co.in
Megan R. Dunn	Illinois Institute of Technology, Chicago, USA	mdunn2@hawk.iit.edu
Max Korbmacher	University of Bergen, Faculty of Psychology, Department of Biological and Medical Psychology, Bergen, Norway Western Norway University of Applied Sciences, Department of Health and Functioning, Bergen, Norway	max.korbmacher@gmail.com
Matúš Adamkovič	University of Presov, Institute of Psychology, Faculty of Arts, Presov, Slovakia CSPS Slovak Academy of Sciences, Institute of Social Sciences, Slovakia	matho.adamkovic@gmail.com
Matheus Fernando Felix Ribeiro	University of Brasilia, Institute of Psychology, Brasilia, Brazil	matheusfelix.psi@gmail.com
Maria Terskova	HSE University, Moscow, Russia	materskova@gmail.com
Matej Hruška	Comenius University in Bratislava, Institute of European Studies and International Relations, Faculty of Social and Economic Sciences, Bratislava, Slovakia	matej.hruska@fses.uniba.sk
Marcel Martončík	University of Presov, Faculty of Arts, Presov, Slovakia; Institute of Social Sciences CSPS SAS, Slovakia	martoncik@protonmail.ch
Martine Jansen	Fontys University of Applied Sciences, Eindhoven, Netherlands	martine.jansen@gmail.com
Martin Voracek	University of Vienna, Department of Cognition, Emotion, and Methods in Psychology, Faculty of Psychology, Vienna, Austria	martin.voracek@univie.ac.at
Martin Čadek	Leeds Beckett University, Carnegie School of Sport, Leeds, United Kingdom	cadekmail@gmail.com

MOTIVATING SOCIAL DISTANCING

Martha Frias-Armenta	Universidad de Sonora, Sonora, Mexico	martha.frias@unison.mx
Marta Kowal	University of Wroclaw, Institute of Psychology, Wroclaw, Poland	marta7kowal@gmail.com
Marta Topor	University of Surrey, School of Psychology, Guildford, United Kingdom	m.topor@surrey.ac.uk
Marta Roczniowska	SWPS University of Social Sciences and Humanities in Sopot, Department of Psychology, Sopot, Poland Karolinska Institutet, Department of Learning, Informatics, Management, and Ethics, Stockholm, Sweden	marta.roczniowska@swps.edu.pl
Marlies Oosterlinck	Independent Researcher	marliesoosterlinck@gmail.com
Markéta Braun Kohlová	Charles University, Environment Centre, Czechia	marketa.braun.kohlova@czp.cuni.cz
Mariola Paruzel-Czachura	University of Silesia in Katowice, Institute of Psychology, Katowice, Poland	mariola.paruzel-czachura@us.edu.pl
Marina Sabristov	Independent Researcher	marina.sabristov@gmail.com
Marina Romanova	HSE University, Moscow, Russia	marina.romanova.msk@gmail.com
Marietta Papadatou-Pastou	National and Kapodistrian University of Athens, Athens, Greece	marietta.papadatou-pastou@seh.oxon.org
Maria Louise Lund	University of Oslo, Oslo, Norway	marialouiselund@hotmail.com
Maria Antoniadis	University of Cyprus, Nicosia, Cyprus	maria.antoniadis867@gmail.com
Maria Elena Magrin	University of Milano – Bicocca, Italy	mariaelena.magrin@unimib.it
Marc V Jones	Manchester Metropolitan University, Department of Psychology, Manchester, United Kingdom	marc.jones@mmu.ac.uk
Manyu Li	University of Louisiana at Lafayette, Lafayette, United States	manyu.li@louisiana.edu
Manuel S Ortiz	Universidad de La Frontera, Departamento de Psicología. Laboratorio de Estrés y Salud, Temuco, Chile	manuel.ortiz@ufrofrontera.cl
Mathi Manavalan	University of Minnesota, Twin Cities, Department of Psychology, Minneapolis, United States	manav003@umn.edu
Abdumalik Muminov	Independent Researcher	malik.traductor@gmail.com
Małgorzata Kossowska	Jagiellonian University, Department of Philosophy, Institute of Psychology, Krakow, Poland	malgorzata.kossowska@uj.edu.pl
Maja Friedemann	University of Oxford, Oxford, United Kingdom	maja.friedemann@sjc.ox.ac.uk
Magdalena Wielgus	Jagiellonian University, Institute of Applied Psychology, Krakow, Poland	magda.wielgus@uj.edu.pl
Madelon L.M. van Hooff	Radboud University, Behavioural Science Institute, Nijmegen, the Netherlands	madelon.vanhooff@ru.nl

MOTIVATING SOCIAL DISTANCING

Marco A. C. Varella	University of São Paulo, Institute of Psychology, Department of Experimental Psychology, São Paulo, Brazil	macvarella@usp.br
Martyn Standage	University of Bath, Centre for Motivation and Health Behaviour Change, Department for Health, United Kingdom	m.standage@bath.ac.uk
Matilde Nicolotti	University of Milano-Bicocca, Department of Psychology, Milan, Italy	m.nicolotti@campus.unimib.it
Melissa F Colloff	University of Birmingham, Birmingham, United Kingdom	m.colloff@bham.ac.uk
Maria Bradford	Universidad de los Andes, Department of Psychology, Bogotá, Colombia	m.bradford10@uniandes.edu.co
Leigh Ann Vaughn	Ithaca College, Ithaca, NY, United States	Lvaughn@ithaca.edu
Luis Eudave	Universidad de Navarra, Pamplona, Spain	luiseudave@gmail.com
Luc Vieira	Université de Paris, Paris, France	lucvieira@protonmail.com
Jackson G. Lu	Massachusetts Institute of Technology, Cambridge, United States	lu18@mit.edu
Lina Maria Sanabria Pineda	Universidad de los Andes, Department of Psychology, Bogotá, Colombia	lsanabriapineda@gmail.com
Lennia Matos	Pontifical Catholic University of Peru, Lima, Peru	lmatosf@pucp.pe
Laura Calderón Pérez	Universidad de los Andes, Department of Psychology, Bogotá, Colombia	lm.calderon10@uniandes.edu.co
Ljiljana B. Lazarevic	University of Belgrade, Faculty of Philosophy, Belgrade, Serbia	ljiljana.lazarevic@f.bg.ac.rs
Lisa M Jaremka	University of Delaware, Department of Psychological and Brain Sciences, Newark, United States	ljaremka@udel.edu
Eline Suzanne Smit	University of Amsterdam/ASCoR, Amsterdam, The Netherlands	E.S.Smit@uva.nl
Elizaveta Kushnir	Independent Researcher	lizakushnir@yandex.ru
Lisa J. Ferguson	Northumbria University, Newcastle upon Tyne, United Kingdom	lisa2.ferguson@northumbria.ac.uk
Lisa Anton-Boicuk	University of Vienna, Social, Cognitive and Affective Neuroscience Unit, Department of Cognition, Emotion, and Methods in Psychology, Faculty of Psychology, Vienna, Austria	lisa.anton-boicuk@univie.ac.at
Gabriel Lins de Holanda Coelho	University College Cork, Cork, Ireland	linshc@gmail.com
Lina Ahlgren	Åbo Akademi University, Faculty of Arts, Psychology and Theology, Turku, Finland	lina.ahlgren@gmail.com
Francesca Liga	Università di Messina, Dipartimento DIMED, Messina, Italy	ligaf@unime.it

MOTIVATING SOCIAL DISTANCING

Carmel A Levitan	Occidental College, Department of Cognitive Science, Los Angeles, United States	levitan@oxy.edu
Leticia Micheli	Julius-Maximilians Universität Würzburg, Institute of Psychology, Würzburg, Germany	leticia.micheli@uni-wuerzburg.de
Lesley-Ann Gunton	Northumbria University, Newcastle upon Tyne, United Kingdom	lesley-ann.gunton@northumbria.ac.uk
Leonhard Volz	University of Amsterdam, Amsterdam, Netherlands	leonhard.volz@gmail.com
Marija Stojanovska	PSA Psihesko, Skopje, North Macedonia	lemarija22@gmail.com
Leanne Boucher	Nova Southeastern University, Department of Psychology and Neuroscience, Fort Lauderdale, United States	lb1079@nova.edu
Lara Samojlenko	University of Primorska, Department of Psychology, Faculty of Mathematics, Natural Sciences and Information Technologies, Koper, Slovenia	lara.samojlenko@gmail.com
Lady Grey Javela Delgado	Universidad del Rosario, Programa de Psicología, Bogotá, Colombia	lady.javela@urosario.edu.co
Lada Kaliska	Matej Bel University, Department of Psychology, Faculty of Education, Banská Bystrica, Slovakia	lada.kaliska@umb.sk
Labadi Beatrix	University of Pécs, Institute of Psychology, Pécs, Hungary	labadi.beatrix@pte.hu
Lara Warmelink	Lancaster University, Department of Psychology, Lancaster, United Kingdom	l.warmelink@lancaster.ac.uk
Luis Miguel Rojas-Berscia	University of Queensland, School of Languages and Cultures, Brisbane, Australia Pontificia Universidad Católica del Perú, Centro de Estudios Orientales, Lima, Peru	lmrojasb@pucp.pe
Karen Yu	Sewanee: The University of the South, Department of Psychology, Sewanee, TN, United States	kyu@sewanee.edu
Keith Wylie	Emporia State University, Department of Psychology, Emporia, Kansas, United States	kwylie@emporia.edu
Jakub Wachowicz	Independent Researcher	kubawachowicz7@gmail.com
Kermeka Desai	Indiana University of Pennsylvania, Indiana, United States	kermeka@gmail.com
Krystian Barzykowski	Jagiellonian University, Institute of Psychology, Krakow, Poland	krystian.barzykowski@uj.edu.pl
Luca Kozma	University of Pécs, Institute of Psychology, Pécs, Hungary	kozma.luca@gmail.com
Kortnee Evans	Murdoch University, College of Science, Health, Engineering and Education, Perth, Australia	kortnee.evans@education.wa.edu.au
Komila Kirgizova	Independent Researcher	komila@hotmail.it
Bamikole B Emmanuel Agesin	Adekunle Ajasin University, Akungba Akoko, Ondo State, Nigeria	koleagesin@yahoo.com

MOTIVATING SOCIAL DISTANCING

Monica A Koehn	University of Canberra, Discipline of Psychology, Faculty of Health, Canberra, Australia	koehn.monica@gmail.com
Kelly Wolfe	University of Edinburgh, Edinburgh, United Kingdom	kwolfe@ed.ac.uk
Tatiana Korobova	London Gates Education Group, Moscow, Russia	klushca@gmail.com
Katherine Morris	Willamette University, Salem, United States	klmorris249@gmail.com
Kristoffer Klevjer	UiT The Arctic University of Norway, Department of Psychology, Tromsø, Norway	klevjer@gmail.com
Kevin van Schie	Erasmus University Rotterdam, Department of Psychology, Education & Child Studies, Erasmus School of Social and Behavioural Sciences, Rotterdam, Netherlands University of Cambridge, MRC Cognition and Brain Sciences Unit, Cambridge, United Kingdom	kevinvschie@gmail.com
Kevin Vezirian	University of Grenoble Alpes, Grenoble, France	kevin.vezirian@gmail.com
Kaja Damjanović	University of Belgrade, Faculty of Philosophy, Belgrade, Serbia	kdamnjan@f.bg.ac.rs
Katrine Krabbe Thommesen	University of St Andrews, School of Psychology and Neuroscience, Zealand, Denmark	katrinekrabbe@gmail.com
Kathleen Schmidt	Southern Illinois University, School of Psychological and Behavioral Sciences, Carbondale, IL United States	kathleen.schmidt@siu.edu
Katarzyna Filip	Jagiellonian University, Institute of Psychology, Krakow, Poland	katarzyna.filip95@gmail.com
Karolina Staniaszek	Independent Researcher	karolina.staniaszek@gmail.com
Karolina Grzech	University of Valencia, Valencia, Spain Stockholm University, Stockholm, Sweden	szarota@gmail.com
Karlijn Hoyer	Tilburg University, Tilburg, Netherlands	karlijnhoeyer@gmail.com
Karis Moon	Kingston University London, Department of Management, Kingston, United Kingdom	Karisamoon@gmail.com
Sirikon Khaobunmasiri	Suranaree University of Technology, Nakhon Ratchasima, Thailand	kanjana@sut.ac.th
Kafeel Rana	GC University, Lahore, Pakistan	kafeelrana87@gmail.com
Kristina Janjić	PSA Psihesko, Skopje, North Macedonia	k.janjic@yahoo.com
Jordan W Suchow	Stevens Institute of Technology, School of Business, Hoboken, United States	jws@stevens.edu
Julita Kiełińska	Jagiellonian University, Institute of Psychology, Krakow, Poland	julita.kielinska@alumni.uj.edu.pl
Julio E Cruz Vásquez	Universidad de los Andes, Department of Psychology Bogotá, Colombia	julioeduardocruz@gmail.com
Julien Chanal	University of Geneva, Geneva, Switzerland	julien.chanal@unige.ch

MOTIVATING SOCIAL DISTANCING

Julia Beitner	Goethe University Frankfurt, Department of Psychology, Frankfurt am Main, Germany	beitner@psych.uni-frankfurt.de
Juan Camilo Vargas-Nieto	Universidad de los Andes, Department of Psychology, Bogotá, Colombia	juanvargaspsicologia@gmail.com
Jose Carlos T Roxas	University of the Philippines Diliman, Department of Psychology, Quezon City, Philippines De La Salle College of Saint Benilde, Department of Psychology, Antipolo, Philippines	jtroxas@up.edu.ph
Jennifer Taber	Kent State University, Department of Psychological Sciences, Kent, United States	jtaber1@kent.edu
Joan Urriago-Rayó	Independent Researcher	joan.urriago.rayo@gmail.com
Jeffrey M. Pavlacić	University of Mississippi, Department of Psychology, Oxford, Mississippi, United States	jpavlaci@go.olemiss.edu
Jozef Benka	Pavol Jozef Šafárik University, Košice, Slovakia	jozef.benka@upjs.sk
Jozef Bavolar	Pavol Jozef Šafárik University in Košice, Department of Psychology, Faculty of Arts, Košice, Slovakia	jozef.bavolar@upjs.sk
José A. Soto	The Pennsylvania State University, Department of Psychology, State College, United States	josesoto@psu.edu
Jonas K Olofsson	Stockholm University, Department of Psychology, Stockholm, Sweden	jonas.olofsson@psychology.su.se
Johannes K Vilsmeier	University of Vienna, Department of Cognition, Emotion, and Methods in Psychology, Vienna, Austria	johannes.vilsmeier@univie.ac.at
Johanna Messerschmidt	Leipzig University, Institute of Psychology, Leipzig, Germany	johanna.messerschmidt@gmail.com
Johanna Czamanski-Cohen	University of Haifa, School of Creative Arts Therapies, Haifa, Israel University of Haifa, Emili Sagol Creative Arts Therapies Research Center, Haifa, Israel	joczamanski@gmail.com
Joachim Waterschoot	Ghent University, Department of Developmental, Personality and Social Psychology, Ghent, Belgium	joachim.waterschoot@ugent.be
Jennifer D. Moss	Emporia State University, Department of Psychology, Emporia, Kansas, United States	jmoss3@emporia.edu
Jordane Boudesseul	Universidad de Lima, Facultad de Psicología, Instituto de Investigación Científica, Lima, Peru	jmj.boudesseul@gmail.com
Jeong Min Lee	Georgia State University, Department of Psychology, Atlanta, United States	jlee500@gsu.edu
Julia Kamburidis	Sofia University St. Kliment Ohridski, Department of General, Experimental, Developmental, and Health Psychology, Sofia, Bulgaria	jkamburidis@gmail.com
Jennifer A Joy-Gaba	Virginia Commonwealth University, Richmond, United States	jjoygaba@vcu.edu
Janis Zickfeld	Aarhus University, Department of Management, Aarhus, Denmark	jhzickfeld@gmail.com

MOTIVATING SOCIAL DISTANCING

Jacob F Miranda	The University of Alabama, Tuscaloosa, Department of Psychology, Tuscaloosa, United States	jfmiranda@crimson.ua.edu
Jeroen P.H. Verharen	University of California Berkeley, Department of Molecular and Cell Biology, Berkeley, United States	jeroenverharen@berkeley.edu
Evgeniya Hristova	New Bulgarian University, Cognitive Science and Psychology Department, Sofia, Bulgaria	ehristova@cogs.nbu.bg
Julie E Beshears	University of Southern Indiana, Evansville, United States	jeb1118@comcast.net
Jasna Milosevic Djordjevic	Singidunum University, Faculty of Media and Communication, Belgrade, Serbia	jasna.milosevic@yahoo.com
Jasmijn Bosch	University of Milan-Bicocca, Milan, Italy	Jasmijn.e.bosch@gmail.com
Jaroslava Varella Valentova	University of São Paulo, Department of Experimental Psychology, Institute of Psychology, São Paulo, Brazil	jaroslava@usp.br
Jan Antfolk	Åbo Akademi University, Faculty of Arts, Psychology and Theology, Turku, Finland	jantfolk@abo.fi
Jana B. Berkessel	University of Mannheim, Mannheim Centre for European Social Research, Mannheim, Germany	jana.berkessel@uni-mannheim.de
Jana Schrötter	Pavol Jozef Šafárik University in Košice, Košice, Slovakia	jana.schrotter@upjs.sk
Jan Urban	Charles University, Environment Centre, Czechia	jan.urban@czp.cuni.cz
Jan Philipp Röer	Witten/Herdecke University, Department of Psychology, Witten, Germany	jan.roer@uni-wh.de
James O Norton	Murdoch University, College of Science, Health, Engineering & Education, Perth, Australia	james.norton@murdoch.edu.au
Jaime R Silva	University of Desarrollo, Faculty of Psychology, Santiago, Chile Clínica Alemana de Santiago, Chile Sociedad Chilena de Desarrollo Emocional, Chile	jaimesilva@udd.cl
Jade S Pickering	University of Manchester, Division of Neuroscience and Experimental Psychology, Manchester, United Kingdom	jadespickering@gmail.com
Jáchym Vintř	Charles University, Department of Psychology, Faculty of Arts, Prague, Czechia	vintrj@student.cuni.cz
Jim Uttley	University of Sheffield, School of Architecture, Sheffield, United Kingdom	j.uttley@sheffield.ac.uk
Jonas R Kunst	University of Oslo, Department of Psychology, Oslo, Norway	j.r.kunst@psykologi.uio.no
Izuchukwu L. G. Ndukaihe	Alex Ekwueme Federal University, Department of Psychology, Ndufu-Alike, Nigeria.	izumario@yahoo.co.uk
Aishwarya Iyer	Sampurna Montfort College, Bangalore, India	iyeraishwarya.work@gmail.com
Iris Vilares	University of Minnesota, Twin Cities, Department of Psychology, Minneapolis, United States	ivilares@umn.edu

MOTIVATING SOCIAL DISTANCING

Aleksandr Ivanov	HSE University, Moscow, Russia	ivansash21112@mail.ru
Ivan Ropovik	Charles University, Faculty of Education, Institute for Research and Development of Education, Prague, Czechia University of Presov, Faculty of Education, Presov, Slovakia	ivan.ropovik@gmail.com
Isabela Sula	Independent Researcher	isabela.sula1997@gmail.com
Irena Sarieva	HSE University, Moscow, Russia	isarieva@hse.ru
Irem Metin-Orta	Atilim University, Department of Psychology, Ankara, Turkey	irem.metin@atilim.edu.tr
Irina Prusova	HSE University, Moscow, Russia	iprusova@hse.ru
Isabel Pinto	University of Porto, Center for Psychology at University of Porto, Porto, Portugal	ipinto@fpce.up.pt
Andreea Ioana Bozdoc	Lucian Blaga University of Sibiu, Department of Psychology, Sibiu, Romania	ioanabozdoc@gmail.com
Inês A. T. Almeida	University of Coimbra, Faculty of Medicine FMUC, Institute of Nuclear Sciences Applied to Health ICNAS, Coimbra Institute for Biomedical Imaging and Translational Research CIBIT, Coimbra, Portugal	italmeida@fmed.uc.pt
Ilse L. Pit	University of Oxford, Institute of Human Sciences, Oxford, United Kingdom Magdalen College, Calleva Research Centre for Evolution and Human Sciences, Oxford, United Kingdom	ilse.pit@anthro.ox.ac.uk
Ilker Dalgat	Ankara Medipol University, Department of Psychology, Ankara, Turkey	ilker.dalgat@ankaramedipol.edu.tr
Ilya Zakharov	Psychological Institute of the Russian Academy of Education, Developmental Behavioral Genetics Laboratory, Moscow, Russia, Russia	iliazaharov@gmail.com
Azuka Ikechukwu Arinze	Alex Ekwueme Federal University, Ndufu-Alike, Nigeria	ikeazukaarinze@gmail.com
Keiko Ihaya	Fukuoka Institute of Technology, Center for Liberal Arts, Fukuoka, Japan	ihayakk@gmail.com
Ian D Stephen	Nottingham Trent University, Division of Psychology, Nottingham, UK	ian.stephen@ntu.ac.uk
Biljana Gjoneska	Macedonian Academy of Sciences and Arts, Skopje, North Macedonia	biljanagjoneska@manu.edu.mk
Hilmar Brohmer	University of Graz, Institute of Psychology, Graz, Austria	hilmar.brohmer@uni-graz.at
Heather Flowe	University of Birmingham, School of Psychology, Birmingham, United Kingdom	h.flowe@bham.ac.uk
Hendrik Godbersen	FOM University of Applied Sciences, Essen, Germany	hendrik.godbersen@godbersen.online

MOTIVATING SOCIAL DISTANCING

Halil Emre Kocalar	Muğla Sıtkı Koçman University, Department of Psychological Counseling and Guidance, Muğla, Turkey	hemrekocalar@mu.edu.tr
Mattie V Hedgebeth	Virginia Commonwealth University, Richmond, United States	hedgebethm@vcu.edu
Hu Chuan-Peng	Nanjing Normal University, School of Psychology, Nanjing, China	hcp4715@gmail.com
MohammadHasan Sharifian	University of Tehran, Department of Psychology, Tehran, Iran	hasan.sharifian@ut.ac.ir
Harry Manley	Chulalongkorn University, Faculty of Psychology, , Bangkok, Thailand	harrisonmanley@gmail.com
Handan Akkas	Ankara Science University, Business Administration Department, Ankara, Turkey	handan.akkas@hotmail.com
Nandor Hajdu	ELTE Eötvös Lóránd University, Institute of Psychology, Budapest, Hungary	hajdu.nandor93@gmail.com
Habiba Azab	Baylor College of Medicine, Department of Neurosurgery, Houston, United States	habiba.azab@gmail.com
Gwenael Kaminski	Université de Toulouse, CLLE, CNRS, UT2J, Toulouse, France	gwenael.kaminski@univ-tlse2.fr
Gustav Nilsson	Karolinska Institutet, Department of Clinical Neuroscience, Solna, Sweden Stockholm University, Department of Psychology, Stockholm, Sweden	gustav.nilsson@ki.se
Gulnaz Anjum	Simon Fraser University, Department of Psychology, Burnaby, Canada Institute of Business Administration, Department of Social Sciences & Liberal Arts, Karachi, Pakistan	ganjum@sfu.ca
Giovanni A. Travaglino	Royal Holloway, University of London, Department of Law and Criminology, Egham, United Kingdom	giovanni.travaglino@rhul.ac.uk
Gilad Feldman	University of Hong Kong, Hong Kong, SAR China	giladfel@gmail.com
Gerit Pfuhl	UiT The Arctic University of Norway, Department of Psychology, Tromsø, Norway	gerit.pfuhl@uit.no
Gabriela Czarnek	Jagiellonian University, Institute of Psychology, Krakow, Poland	gabriela.czarnek@uj.edu.pl
Gabriela Mariana Marcu	Lucian Blaga University of Sibiu, Department of Psychology, Sibiu Romania Carol Davila University of Medicine and Pharmacy Bucharest, Romania	gabriela.marcu@ulbsibiu.ro
Gabriela Hofer	University of Graz, Institute of Psychology, Graz, Austria	gabriela.hofer@uni-graz.at
Gabriel Banik	University of Presov, Institute of Psychology, Presov, Slovakia	gabriel.banik@gmail.com
Gabriel Agboola Adetula	Adekunle Ajasin University, Department of Pure and Applied Psychology, Faculty of Social and Management Sciences, Akungba Akoko, Nigeria	g1b2gbo3detul4@gmail.com

MOTIVATING SOCIAL DISTANCING

Gijsbert Bijlstra	Radboud University, Behavioural Science Institute, Nijmegen, Netherlands	g.bijlstra@bsi.ru.nl
Frederick Verbruggen	Ghent University, Department of Experimental Psychology, Ghent, Belgium	frederick.verbruggen@ugent.be
Franki Y. H. Kung	Purdue University, West Lafayette, United States	frankikung@purdue.edu
Frank Martela	Aalto University, Espoo, Finland	frank.martela@aalto.fi
Francesco Foroni	Australian Catholic University, Sydney, Australia	francesco.foroni@acu.edu.au
Jacques Forest	Université du Québec à Montréal, School of Management, Montreal, Canada	forest.jacques@uqam.ca
Gage Singer	Indiana University of Pennsylvania, Department of Psychology, Indiana, United States	gagesinger@live.com
Fany Muchembled	Instituto Tecnológico de Estudios Superiores de Monterrey, Monterrey, Mexico	fany.muchembled@tec.mx
Flavio Azevedo	Friedrich Schiller University Jena, Jena, Germany	flavio.azevedo@uni-jena.de
Farnaz Mosannenzadeh	Radboud University, Faculty of Social Sciences, Behavioural Science Institute, Nijmegen, Netherlands	f.mosannenzadeh@psych.ru.nl
Evelina Marinova	Sofia University St. Kliment Ohridski, Department of General, Experimental, Developmental, and Health Psychology, Sofia, Bulgaria	evelina.b.marinova@gmail.com
Eva Štrukelj	Sapienza University of Rome, Dynamic and Clinical Psychology, Rome, Italy	eva.strukelj2@gmail.com
Zahra Etebari	Ferdowsi University of Mashhad, Mashhad, Iran	etebari.zahra@gmail.com
Emma L. Bradshaw	Australian Catholic University, Institute for Positive Psychology and Education, Sydney, Australia	emma.bradshaw@acu.edu.au
Ernest Baskin	Saint Joseph's University, Philadelphia, United States	ebaskin@sju.edu
Elkin Oswaldo Luis Garcia	Universidad de Navarra, Pamplona, Spain	eoswaldo@unav.es
Erica Musser	Florida International University, Department of Psychology, Center for Children and Families, Miami, United States	emusser@fiu.edu
I.M.M. van Steenkiste	Universiteit Leiden, Leiden, Netherlands	imvsteenkiste@gmail.com
El Rim Ahn	University of Florida, Department of Psychology, Gainesville, United States	elrimahn@ufl.edu
Eleanor Qusted	Curtin University, enAble Institute, Perth, Australia	eleanor.quested@curtin.edu.au
Ekaterina Pronizius	University of Vienna, Department of Cognition, Emotion, and Methods in Psychology, Faculty of Psychology, Vienna, Austria	ekaterina.pronizius@univie.ac.at
Emily A Jackson	Indiana University of Pennsylvania, Indiana, United States	ejackson@iup.edu

MOTIVATING SOCIAL DISTANCING

Efisio Manunta	Université de Toulouse, CLLE, CNRS, UT2J, Toulouse, France	efisio.manunta@univ-tlse2.fr
Elena Agadullina	HSE University, School of Psychology, Moscow, Russia	eagadullina@hse.ru
Dušana Šakan	Union University, Faculty of Legal and Business Studies Dr Lazar Vrkatic, Department of Psychology, Novi Sad, Serbia	dusana.sakan@flv.edu.rs
Pinar Dursun	Afyon Kocatepe University, Department of Psychology, Afyonkarahisar, Turkey	dursun.pinar@gmail.com
Olivier Dujols	University of Grenoble Alpes, Grenoble, France	dujols.ol@gmail.com
Dmitrii Dubrov	National Research University Higher School of Economics, RF	ddubrov@hse.ru
Megan Willis	Australian Catholic University, School of Behavioural and Health Sciences, Sydney, Australia	Dr.Megan.Willis@gmail.com
Murat Tümer	Hacettepe University, Department of Anesthesiology and Reanimation, Ankara, Turkey	m.tumer@hacettepe.edu.tr
Jennifer L Beaudry	Swinburne University of Technology, Department of Psychological Sciences, Melbourne, Australia	jbeaudry@swin.edu.au
Dora Popović	Institute of Social Sciences Ivo Pilar, Zagreb, Croatia	dora.popovic@pilar.hr
Daniel Dunleavy	Florida State University, Center for Translational Behavioral Science, Tallahassee, United States	djd09c@fsu.edu
Ikhlas Djamai	Mohammed V University in Rabat, Rabat, Morocco	djamaiikhlas@gmail.com
Dino Krupić	The University of Osijek, Faculty of Humanities and Social Science, Osijek, Croatia	dkrupic@ffos.hr
Dora Herrera	Pontifical Catholic University of Peru, Lima, Peru	diherrer@pucp.pe
Diego Vega	Universidad Latina de Costa Rica, San Pedro, Costa Rica	luis.vegaa@ulatina.cr
Hongfei Du	Beijing Normal University at Zhuhai, Institute of Advanced Studies in Humanities and Social Sciences, Zhuhai, China	dhfpsy@gmail.com
Débora Mola	Universidad Nacional de Córdoba (UNC), Facultad de Psicología; Instituto de Investigaciones Psicológicas (IIPsi) - Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) - UNC, Córdoba, Argentina	debora.mola@unc.edu.ar
Desislava Chakarova	New Bulgarian University, Sofia, Bulgaria	de.chakarova@gmail.com
William E Davis	Wittenberg University, Department of Psychology, Springfield, United States	davisw4@wittenberg.edu
Dawn Liu Holford	University of Essex, Essex, United Kingdom	dawn.liuholford@gmail.com
David M. G. Lewis	Murdoch University, College of Science, Health, Engineering and Education, Perth, Australia; Murdoch University, Centre for Healthy Ageing, Health Futures Institute, Perth, Australia,	davidlewis@utexas.edu

MOTIVATING SOCIAL DISTANCING

David C. Vaidis	Université de Paris, Paris, France	david.vaidis@u-paris.fr
Daphna Hausman Ozery	California State University, Northridge, United States	daphna.ozery@csun.edu
Daniilo Zambrano Ricaurte	Fundación Universitaria Konrad Lorenz, Faculty of Psychology, Bogotá, Colombia	daniilo.zambranor@konradlorenz.edu.co
Daniel Storage	University of Denver, Department of Psychology, Denver, United States	Daniel.Storage@du.edu
Daniela Sousa	University of Coimbra, Institute of Nuclear Sciences Applied to Health ICNAS, Coimbra Institute for Biomedical Imaging and Translational Research CIBIT, Coimbra, Portugal	daniela.d.sousa@uc.pt
Daniela Serrato Alvarez	Fundación Universitaria Konrad Lorenz, Bogotá, Colombia	daniela.serratoa@konradlorenz.edu.co
Daniel Boller	University of St. Gallen, St. Gallen, Switzerland	daniel.boller@unisg.ch
Anna Dalla Rosa	University of Padova, Department of Philosophy, Sociology, Education and Applied Psychology, Padua, Italy	anna.dallarosa@unipd.it
Daliborka Dimova	PSA Psihesko, Skopje, North Macedonia	daliborkadimova@gmail.com
Dajana Krupić	Norvel - Psychological Centre for Counselling and Research, Croatia	dajana.krupic@norvel.hr
Dafne Marko	University of Ljubljana, Cognitive Science, Faculty of Education, Ljubljana, Slovenia	dafne.marko@gmail.com
David Moreau	The University of Auckland, School of Psychology and Centre for Brain Research, Auckland, New Zealand	d.moreau@auckland.ac.nz
Crystal Reeck	Temple University, Fox School of Business, Philadelphia, United States	crystalreeck@gmail.com
Rita C Correia	University of Porto, Center for Psychology at University of Porto, Porto, Portugal	correia.rita.27@gmail.com
Cassie M Whitt	University of Alabama, Tuscaloosa, United States	cassiewhitt9@gmail.com
Claus Lamm	University of Vienna, Department of Cognition, Emotion, and Methods in Psychology, Faculty of Psychology, Vienna, Austria	claus.lamm@univie.ac.at
Claudio Singh Solorzano	Sapienza University, Department of Psychology, Rome, Italy	claudio.singh@uniroma1.it
Claudia C von Bastian	University of Sheffield, Department of Psychology, Sheffield, United Kingdom	c.c.vonbastian@sheffield.ac.uk
Clare AM Sutherland	University of Aberdeen, School of Psychology, King's College, Aberdeen, Scotland	clare.sutherland@abdn.ac.uk
	University of Western Australia, School of Psychological Science, Perth, Australia	
Clara Overkott	University of Zurich, Department of Psychology, Zurich, Switzerland	c.overkott@psychologie.uzh.ch

MOTIVATING SOCIAL DISTANCING

Christopher L. Aberson	California Polytechnic University, Humboldt, Arcata, United States	cla18@humboldt.edu
Chunhui Wang	Chinese Center of Disease Prevention and Control, China	chunhui.wang.qdjk@gmail.com
Christopher P. Niemiec	University of Rochester, Rochester, United States	christopher.niemiec@rochester.edu
Christiana Karashiali	University of Cyprus, Department of Psychology, Nicosia, Cyprus	karashiali.christiana@ucy.ac.cy
Chris Noone	National University of Ireland Galway, School of Psychology, Galway, Ireland	chris.noone@nuigalway.ie
Faith Chiu	University of Essex, Department of Language and Linguistics, Essex, United Kingdom	f.chiu@essex.ac.uk
Chiara Picciocchi	University of Naples L'Orientale, Naples, Italy	chiara.picciocchi@outlook.com
Charlotte Brownlow	University of Southern Queensland, Toowoomba, Australia	Charlotte.brownlow@usq.edu.au
Cemre Karaarslan	University of Başkent, Institute of Social Sciences, Department of Psychology, Ankara, Turkey	cemrekaraarslann@gmail.com
Nicola Cellini	University of Padua, Department of General Psychology, Padua, Italy University of Padua, Department of Biomedical Sciences, Padua, Italy University of Padua, Padova Neuroscience Center, Padua, Italy University of Padua, Human Inspired Technology Center, Padua, Italy	nicola.cellini@unipd.it
Celia Esteban-Serna	University College London, Division of Psychology & Language Sciences, London, United Kingdom	celiaestser99@gmail.com
Cecilia Reyna	Universidad Nacional de Córdoba (UNC), Facultad de Psicología; Instituto de Investigaciones Psicológicas (IIPsi) - Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) - UNC, Córdoba, Argentina	ceciliareyna@unc.edu.ar
Cecilia Ferreyra	Pontificia Universidad Católica del Peru, Lima, Peru	cecilia.ferreyra@pucp.pe
Carlota Batres	Franklin and Marshall College, Department of Psychology, Lancaster, United States	cbatres@fandm.edu
Ranran Li	Vrije Universiteit Amsterdam, Department of Experimental and Applied Psychology, Amsterdam, Netherlands	ranran.li@vu.nl
Caterina Grano	Sapienza University, Department of Psychology, Rome, Italy	caterina.grano@uniroma1.it
Joelle Carpentier	Université du Québec à Montréal, School of Management, Department of Organization and Human Resources, Montreal, Canada	carpentier.joelle@uqam.ca
Christian K. Tamnes	University of Oslo, Department of Psychology, Oslo, Norway	c.k.tamnes@psykologi.uio.no

MOTIVATING SOCIAL DISTANCING

Cynthia H.Y. Fu	University of East London, School of Psychology, London, United Kingdom King's College London, Centre for Affective Disorders, Institute of Psychiatry, Psychology and Neuroscience, London, United Kingdom	c.fu@uel.ac.uk
Byurakn Ishkhanyan	Aarhus University, School of Communication and Culture, Aarhus, Denmark	byurakn@cc.au.dk
Lisa Bylinina	Leiden University, Leiden, Netherlands	bylinina@gmail.com
Bastian Jaeger	Vrije Universiteit Amsterdam, Department of Experimental and Applied Psychology, Amsterdam, Netherlands Tilburg University, Department of Social Psychology, Tilburg, Netherlands	bxjaeger@gmail.com
Carsten Bundt	Multimodal Imaging and Cognitive Control Lab, Department of Psychology, University of Oslo, Oslo, Norway Cognitive and Translational Neuroscience Cluster, Department of Psychology, University of Oslo, Oslo, Norway	bundt.carsten@gmail.com
Tara Bulut Allred	University of Belgrade, Faculty of Philosophy, Laboratory for Research of Individual Differences , Belgrade, Serbia	tara.bulut@f.bg.ac.rs
Branko J. Vermote	Ghent University, Department of Developmental, Personality and Social Psychology, Ghent, Belgium	branko.vermote@ugent.be
Ahmed Bokkour	Mohammed V University in Rabat, Rabat, Morocco	bokkour.ahmed@gmail.com
Natalia Bogatyreva	HSE University, Moscow, Russia	nbogatyreva@hse.ru
Jiaxin Shi	The University of Hong Kong, Hong Kong, SAR China	langlang723@foxmail.com
William J Chopik	Michigan State University, Department of Psychology, East Lansing, United States	bill.chopik@gmail.com
Benedict Antazo	Jose Rizal University, Department of Psychology, Mandaluyong, Philippines	bgantazo@gmail.com
Behzad Behzadnia	University of Tabriz, <i>Faculty of Physical Education and Sport Science</i> , Department of Motor Behavior, Tabriz, Iran	behzadniaa@gmail.com
Maja Becker	Université de Toulouse, CLLE, CNRS, Toulouse, France	mbecker@univ-tlse2.fr
Manal M. Bayyat	School of Sport Science, University of Jordan, Jordan	Mabayyat@yahoo.com
Beatrice Cocco	Independent Researcher	beatricecocco094@gmail.com
Wei-Lun Chou	Fo Guang University, Department of Psychology, Jiaoxi, Taiwan	chouweilun@ntu.edu.tw
Vassilis Barkoukis	Department of Physical Education and Sport Science, Aristotle University of Thessaloniki, Thessaloniki, Greece	bark@phed.auth.gr
Barbora Hubena	Independent Researcher	barbora.hubena@gmail.com

MOTIVATING SOCIAL DISTANCING

Barbara Žuro	The Institute of Psychology, Dublin, Ireland University of Osijek, Faculty of Humanities and Social Sciences, Osijek, Croatia	barbara.zuro1@gmail.com
Balazs Aczel	ELTE Eötvös Loránd University, Institute of Psychology, Budapest, Hungary	balazs.aczel@gmail.com
Ekaterina Baklanova	Lomonosov Moscow State University, Institute of Asian and African Studies, Moscow, Russia	baklanova@gmail.com
Hui Bai	Stanford University, Palo Alto, United States	huibai@stanford.edu
Busra Bahar Balci	Samsun University, Department of Psychology, Samsun, Turkey Dokuz Eylül University, Department of Psychology, Izmir, Turkey	baharbalci2@gmail.com
Peter Babinečák	University of Presov, Faculty of Arts, Institute and Psychology, Presov, Slovakia	peter.babincak@unipo.sk
Bart Soenens	Department of Developmental, Personality and Social Psychology, Ghent University	Bart.Soenens@ugent.be
Barnaby James Wyld Dixon	University of the Sunshine Coast, School of Health and Behavioural Sciences, Sippy Downs, Australia	bdixon@usc.edu.au
Aviv Mokady	Ben Gurion University, Department of Psychology, Beersheba, Israel	avmokady@gmail.com
Heather Barry Kappes	London School of Economics and Political Science, Department of Management, London, United Kingdom	h.kappes@lse.ac.uk
Mohammad Atari	University of Southern California, Department of Psychology, Los Angeles, United States	atari@usc.edu
Anna Szala	Oakland University, Department of Psychology, Rochester, United States	aszala88@gmail.com
Anna Szabelska	Queen's University Belfast, Belfast, Ireland	szabelska.anna@gmail.com
John Jamir Benzon Aruta	De La Salle University, Manila, Philippines	aruta_johnjamirbenzon@yahoo.com
Artur Domurat	Kozminski University, Centre for Economic Psychology and Decision Sciences, Warsaw, Poland	adomurat@kozminski.edu.pl
Nwadiogo Chisom Arinze	Alex Ekwueme Federal University Ndufu-Alike, Nigeria	arinzenwadiogo@gmail.com
Arianna Modena	Università degli Studi di Trieste, Dipartimento di Scienze Giuridiche, del Linguaggio, dell'Interpretazione e della Traduzione, Trieste, Italy	ariannamodena95@gmail.com
Arca Adiguzel	Muğla Sıtkı Koçman University, Department of Psychological Counseling and Guidance, Muğla, Turkey	arcaadiguzel@mu.edu.tr
Arash Monajem	University of Tehran, Tehran, Iran	arash.monajem@hotmail.com
Kanza AIT EL ARABI	Mohammed V University of Rabat, Rabat, Morocco	arabikanza@gmail.com
Asil Ali Özdoğru	Üsküdar University, Department of Psychology, İstanbul, Turkey	asil.ozdogru@uskudar.edu.tr

MOTIVATING SOCIAL DISTANCING

Alex O. Rothbaum	Case Western Reserve University, Cleveland, United States	aor13@case.edu
Adriana Olaya Torres	University of Desarrollo, Faculty of Psychology, Santiago, Chile	aolayat@udd.cl
Andriana Theodoropoulou	University of Essex, Department of Psychology, Essex, United Kingdom	a.theodoropoulou@essex.ac.uk
Anna Skowronek	Independent Researcher	anna.allodola@gmail.com
Anita Penić Jurković	Kindergarten Kustošija, Zagreb, Croatia	anita.penic.vk@gmail.com
Anisha Singh	Busara Center of Behavioural Economics, Kenya	anisha.singh@busaracenter.org
Angelos P. Kassianos	Cyprus University of Technology, Department of Nursing, Limassol, Cyprus University College London, Department of Applied Health Research, London, United Kingdom	angelos.kassianos@cut.ac.cy
Andrej Findor	Comenius University in Bratislava, Faculty of Social and Economic Sciences, Bratislava, Slovakia	andrej.findor@fses.uniba.sk
Andree Hartanto	Singapore Management University, School of Social Sciences, Singapore	andreeh@smu.edu.sg
Anais Thibault Landry	Concordia University, John Molson Business School, Montreal, Canada	Anais.thibaultlandry@gmail.com
Ana Ferreira	University of Coimbra, Faculty of Medicine FMUC, Institute of Nuclear Sciences Applied to Health ICNAS, Coimbra Institute for Biomedical Imaging and Translational Research CIBIT, Coimbra, Portugal	apferreira@icnas.uc.pt
Anabela Caetano Santos	University of Lisbon, Aventura Social and DESSH, Faculty of Human Kinetics, Lisbon, Portugal University of Lisbon, Institute of Environmental Health, Medicine Faculty, Lisbon, Portugal Universitário de Lisboa, Iscte-Instituto Universitário de Lisboa, CIS-IUL, Lisbon, Portugal	anabelasantos@campus.ul.pt
Anabel De la Rosa-Gomez	National Autonomous University of Mexico, Faculty of Higher Studies Iztacala, Mexico City, Mexico	anabel.delarosa@iztacala.unam.mx
Amélie Gourdon-Kanhukamwe	Kingston University, London, United Kingdom King's College London, London, United Kingdom Institute for Globally Distributed Open Research and Education (IGDORE), United Kingdom	amelie.gourdon-kanhukamwe@kcl.ac.uk
Alexandria M. Luxon	Illinois Institute of Technology, Chicago, United States	aluxon@hawk.iit.edu
Anna Louise Todsén	University of St Andrews, Department of Psychology and Neuroscience, St Andrews, United Kingdom	alt8@st-andrews.ac.uk
Alper Karababa	Muğla Sıtkı Koçman University, Department of Psychological Counselling and Guidance, Faculty of Education, Muğla, Turkey	alperkarababa@mu.edu.tr
Allison Janak	New York University, Steinhardt, Department of Applied Psychology, New York, United States	apj263@nyu.edu

MOTIVATING SOCIAL DISTANCING

Alice Pilato	University of Trieste, Department of Translation and Interpretation, Trieste, Italy	alicepilato98@gmail.com
Alexandre Bran	Université de Paris, Paris, France	alexandre.bran@outlook.com
Alexa M Tullett	University of Alabama, Department of Psychology, Tuscaloosa, United States	alexa.tullett@gmail.com
Anna O. Kuzminska	University of Warsaw, Faculty of Management, Warsaw, Poland	akuzminska@wz.uw.edu.pl
Anthony J Krafnick	Dominican University, Department of Psychology, River Forest, United States	akrafnick@dom.edu
Anum Urooj	La Trobe University, Melbourne, Australia	ain.sonia@gmail.com
Ahmed Khaoudi	Mohammed V University in Rabat, Rabat, Morocco	ahmedkhaoudi@gmail.com
Afroja Ahmed	University of Limerick, Global MINDS, Department of Psychology, Limerick, Ireland	ahmedafroja25@gmail.com
Agata Groyecka-Bernard	University of Wroclaw, Institute of Psychology, Wroclaw, Poland Johannes Gutenberg University, Social and Legal Psychology, Mainz, Germany	agata.groyecka@gmail.com
Adrian Dahl Askelund	Nic Waals Institute, Lovisenberg Diaconal Hospital, Oslo, Norway	adrian.askelund@gmail.com
Adeyemi Adetula	Université Grenoble Alpes, LIP/PC2S, Grenoble, France Alex Ekwueme Federal University, Department of Psychology, Ndufu-Alike, Nigeria	adeyemiadetula1@gmail.com
Anabel Belaus	Universidad Nacional de Córdoba (UNC), Facultad de Psicología; Instituto de Investigaciones Psicológicas (IIPsi) - Consejo Nacional de Investigaciones Científicas y Técnicas (CONICET) - UNC, Córdoba, Argentina	abelaus@unc.edu.ar
Abdelilah Ca Charyate	Ibn Tofail University, Higher College of Education & Training Kenitra, Morocco	abdelilah.charyate@uit.ac.ma
Aaron L. Wichman	Western Kentucky University, Psychological Sciences Department, Bowling Green, United States	aaron.wichman@wku.edu
Alina Stoyanova	Sofia University St. Kliment Ohridski, Department of General, Experimental, Developmental, and Health Psychology, Sofia, Bulgaria	a.svilenova@gmail.com
Anna Greenburgh	University College London, Department of Experimental Psychology, London, United Kingdom	a.greenburgh@ucl.ac.uk
Andrew G. Thomas	Swansea University, Psychology Department, Swansea, United Kingdom	research@agthomas.net
Alexios Arvanitis	University of Crete, Department of Psychology, Crete, Greece	a.arvanitis@uoc.gr
Patrick S Forscher	Université Grenoble Alpes, LIP/PC2S, Grenoble, France	schnarrd@gmail.com
Peter R Mallik	Ashland University, Department of Psychology, Ashland, United States	pmallik@ashland.edu

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Nicholas A. Coles	Harvard University, Harvard Kennedy School, Boston, United States Stanford University, Center for the Study of Language and Information, California, United States	ncoles797@gmail.com
Jeremy K. Miller	Willamette University, Department of Psychology, Salem, United States	millerj@willamette.edu
Hannah Moshontz	University of Wisconsin-Madison, Department of Psychology, Madison, United States	hmoshontz@gmail.com
Heather L. Urry	Tufts University, Department of Psychology, Medford, United States	heather.urry@tufts.edu
Hans IJzerman	Université Grenoble Alpes, Grenoble, France Institut Universitaire de France, Paris, France	h.ijzerman@gmail.com
Dana M. Basnight-Brown	United States International University Africa, Nairobi, Kenya	dana.basnightbrown@usiu.ac.ke
Christopher R. Chartier	Ashland University, Department of Psychology, Ashland, United States	cchartie@ashland.edu
Charles R. Ebersole	University of Virginia, Department of Psychology, Charlottesville, United States	cebersole@virginia.edu
Erin M. Buchanan	Harrisburg University of Science and Technology, Harrisburg, United States	ebuchanan@harrisburgu.edu
Maximilian A. Primbs	Radboud University, Behavioural Science Institute, Nijmegen, Netherlands	maximilian.primbs@gmx.de

Correspondence may be addressed to Thuy-vy Nguyen, thuy-vy.nguyen@durham.ac.uk and Nicole Legate, nlegate@iit.edu.

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Abstract

Finding communication strategies that effectively motivate social distancing continues to be a global public health priority during the COVID-19 pandemic. This cross-country, preregistered experiment ($n = 25,718$ from 89 countries) tested hypotheses concerning generalizable positive and negative outcomes of social distancing messages that promoted personal agency and reflective choices (i.e., an autonomy-supportive message) or were restrictive and shaming (i.e. a controlling message) compared to no message at all. Results partially supported experimental hypotheses in that the controlling message increased controlled motivation (a poorly-internalized form of motivation relying on shame, guilt, and fear of social consequences) relative to no message. On the other hand, the autonomy-supportive message lowered feelings of defiance compared to the controlling message, but the controlling message did not differ from receiving no message at all. Unexpectedly, messages did not influence autonomous motivation (a highly-internalized form of motivation relying on one's core values) or behavioral intentions. Results supported hypothesized associations between people's existing autonomous and controlled motivations and self-reported behavioral intentions to engage in social distancing: Controlled motivation was associated with more defiance and less long-term behavioral intentions to engage in social distancing, whereas autonomous motivation was associated with less defiance and more short- and long-term intentions to social distance. Overall, this work highlights the potential harm of using shaming and pressuring language in public health communication, with implications for the current and future global health challenges.

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Significance Statement

Communicating in ways that motivate engagement in social distancing remains a critical global public health priority during the COVID-19 pandemic. This study tested motivational qualities of messages about social distancing (those that promoted choice and agency versus those that were forceful and shaming) in 25,718 people in 89 countries. The autonomy-supportive message decreased feelings of defying social distancing recommendations relative to the controlling message, and the controlling message increased controlled motivation, a less effective form of motivation, relative to no message. Message type did not impact intentions to socially distance, but people's existing motivations were related to intentions. Findings were generalizable across a geographically diverse sample and may inform public health communication strategies in this and future global health emergencies.

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A Global Experiment on Motivating Social Distancing During the COVID-19 Pandemic

The New Zealand government's team opted to take a different route, focusing on the impact on people's daily lives and steps they could take to protect each other [...] The messaging was overwhelmingly positive in tone, giving "dos" rather than "don'ts" as well as *reasons why*. Instead of "wash your hands", for instance, the advice was "washing and drying your hands kills the virus" – to underscore individual agency and encourage participation in the national response [...] In seeking to foster calm and compassion, New Zealand's messaging was starkly different to that elsewhere. The state of Oregon, for example, ran a campaign with the slogans "Don't accidentally kill someone" and "It's up to you how many people live or die". In the UK, government campaigns have warned "don't let a coffee cost a life" and shown the reproachful faces of people on ventilators: "Look him in the eyes and tell him the risk isn't real."

- The Guardian (February 22, 2021)

To mitigate the spread of the novel coronavirus (COVID-19) pandemic, international bodies, governments, and other stakeholders around the world have been urging, among other practices, social distancing, or maintaining an approximate six foot distance from people who live in other households (1, 2). During the first year of the pandemic, New Zealand emerged as an example of a country that successfully mitigated the spread of COVID-19, which may have been due, in part, to their effective communication strategy (3, 4). Out of all the rules that were enforced to various degrees around the world, those that kept people apart from one another, like cancelling public gatherings and restricting movement, were among the most contested, yet effective, interventions to reduce the spread of COVID-19 (5). Longitudinal cross-national studies found that policies like school closures and stay-at-home orders increased social distancing and were effective in slowing COVID-19 daily confirmed cases (6) and deaths (7). Therefore, motivating engagement in social distancing has been emphasized as a critical global public health priority by researchers (8, 9) and global policy-makers (1) alike.

Motivation science from the framework of self-determination theory can provide insight into why some ways of communicating can motivate behavior change, whereas others, even when well-intentioned, may backfire. Self-determination theory (SDT) (10) has long investigated

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the effects of communication style on the quality, quantity, and sustainability of people's motivation to change their behavior. New Zealand's communication strategy as described in the opening quote is one example of an *autonomy-supportive* communication style that helps people understand and endorse the value of the requested behavior. This communication style involves perspective-taking (e.g., acknowledging how difficult it is to alter one's daily life), providing a meaningful rationale (e.g., explaining why social distancing is effective and important for reducing viral spread), and supporting individual agency and ownership in terms of how to respond within the practical constraints of the situation (e.g., offering safe alternatives from which to choose) (11). In contrast, a *controlling* communication style, as illustrated with those used by the state of Oregon and the UK in the opening quote, is characterized by demanding language (e.g., informing people what they should, must, or have to do) and relies on shaming and blaming to motivate behavior change (12). Although some argue that controlling messages are necessary in enforcing adherence in the short-term (13), this adherence declines over time (14). Moreover, controlling messages can have the opposite effect of increasing undesired behaviors and feelings of defiance, or wanting to do the opposite of what is being requested (15, 16). Autonomy-supportive messages, on the other hand, consistently increase adherence in the short- and long-term (14, 17), and reduce feelings of defiance (15, 16).

Over the course of the COVID-19 pandemic, employers, local governments, national governments, and global government groups like the WHO have urged people to take various mitigation actions like social distancing. People have repeatedly defied social distancing recommendations (18, 19); this is not surprising because defiance occurs when people are bombarded with messages to change their behavior and perceive their freedom as restricted (20, 21). This trend of defiance threatens to accelerate viral spread. Thus, establishing whether

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different messaging approaches can curb feelings of defiance, and increase adherence to social distancing recommendations, is crucial.

Autonomy-supportive messages about social distancing may be more effective than controlling messages because they promote *autonomous motivation*, or internalizing the value and importance of the requested behavior (e.g., engaging in social distancing to protect their own and others' health). On the other hand, controlling messages about social distancing may be less effective than autonomy-supportive messages because they promote *controlled motivation*, a poorly-internalized form of motivation relying on avoiding punishment, social judgments, and feelings of shame and guilt (e.g., engaging in social distancing to avoid disapproval from others) (10). Across myriad behaviors, autonomous motivation predicts greater behavior change than controlled motivation in the short- and long-term (22).

This experiment investigated whether and how communication strategies, delivered online in short written messages, a low cost and common method of conveying public health recommendations (23), could motivate social distancing. Participants recruited from 89 countries were exposed to an autonomy-supportive message, a controlling message, or no message. We recognized that prior to and during the five months of data collection (from April to September 2020), participants were encountering a high volume of messages about social distancing in their everyday lives that varied widely in how autonomy supportive versus controlling they were. We thus used the “no message” comparison condition to capture participants' motivation as a function of exposure to messages received prior to our experiment. Regardless of prior message exposure, we were interested in the magnitude of effects (even if minimal) resulting from exposure to a new motivational message to inform public health stakeholders about realistic effects they could expect to see if implemented at scale.

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Three research aims were supported by this design. First, we aimed to determine the extent to which brief, written autonomy-supportive and controlling messages differentially affect motivation, feelings of defiance, and behavioral intentions to follow social distancing recommendations. We did not track social distancing adherence over time due to varied resources across the many data collection labs and opted to measure behavioral intentions (both short- and long-term) for social distancing instead. Behavioral intentions, or plans to perform a behavior (24), are a key determinant of behavioral adherence and a common outcome for health behavior interventions (24, 25). A second aim was to determine whether the differential effects of autonomy-supportive and controlling messages generalize across a geographically diverse sample (26). Finally, we aimed to test associations between motivations to follow social distancing recommendations with feelings of defiance and behavioral intentions. Recent longitudinal research in Belgium and the UK suggests that people can simultaneously hold autonomous and controlled motivations for following COVID-19-related recommendations (e.g., hand-washing, social distancing, mask wearing), but only autonomous motivation predicted greater adherence over time; controlled motivation either did not relate or predicted lower adherence over time (27, 28). This global sample allows us to test the generalizability of these differential associations between autonomous and controlled motivation and indicators of adherence to social distancing recommendations, independent of the messaging effects we observe. Finding predictors of defiance and intentions to socially distance that generalize across a global sample, whether it is from experimental messages or from participants' existing motivations for social distancing, is critical for informing the best routes of intervention.

Our hypotheses and data analysis plan were preregistered prior to data collection at <https://osf.io/2u6xs/>.

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Hypothesis 1: Compared to the controlling message, those in the autonomy-supportive message and no-message conditions will report a) higher internalized motivation to socially distance, b) lower feelings of defiance, and c) higher short-term (one-week) and long-term (six-month) intentions to socially distance. In other words, we expected the autonomy-supportive message to have benefits over the controlling message, and the controlling message to have worse outcomes compared to no message at all.

Hypothesis 2: Autonomous motivation for social distancing will be associated with a) lower feelings of defiance, and greater short-term (one-week) and long-term (six-months) intentions to socially distance, while controlled motivation will b) have inverse associations with defiance and behavioral intentions.

Results

Descriptive Statistics

Descriptive statistics for all variables analyzed in this study, including correlations among variables, are presented in *Table 1*. *Figure 1* shows the final samples used in analyses after data exclusions (see *Supplemental Information* for a description). *Figure 2* shows distributions of study variables, indicating that on average, participants were already following social distancing to a high degree, they intended to continue following recommendations in the future, they already highly endorsed the value of the recommendations, and they reported feeling very little defiance about these recommendations.

Confirmatory Analyses

Given the large sample size in this study, confirmatory analyses were preregistered with a specified region of practical equivalence to aid interpretation of statistically significant but small effects. We specified that a hypothesis would be supported if an effect and its 95% confidence

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interval was fully outside of the null interval of $d = -0.050$ to 0.050 (equivalent to partial r [r_p] = -0.025 to 0.025). If an effect and its 95% confidence interval overlap with the null interval, it would not be considered practically meaningful, and the hypothesis would not be supported. This cutoff was informed by $d = |0.05|$ as our smallest effect size of interest.¹

Results reported in the text focus on partial r s (r_p) for random-intercept models (see *Table 2* for a more complete reporting of the statistics; *Table 3* presents these models adding in random slopes for predictor variables). See *Supplemental Information* for additional analyses.²

Hypothesis 1

See *Figure 3* for a visualization of confirmatory effects for Hypothesis 1.

Autonomous and Controlled Motivation. Across all message conditions, autonomous motivation was high (see M and SD in *Table 1*). We did not find evidence that the autonomy-supportive message condition yielded higher autonomous motivation than the controlling message condition, $r_p = .034$, 95% CI $[-.022, .046]$, nor did we find evidence that those in the no-message condition reported higher autonomous motivation than the controlling message condition, $r_p = -.012$, 95% CI $[-.024, .001]$.

Across all message conditions, controlled motivation was moderate. Those in the no-message condition showed lower controlled motivation than those in the controlling message condition, $r_p = -.096$, 95% CI $[-.108, -.084]$. However, we did not find evidence of a difference in

¹We deviated from our preregistration in that we report partial r s (r_p) instead of Cohen's d because our planned analyses produced r_p ; reporting r_p also makes results easier to compare with previous findings related to health media campaigns.

²We reran the main analyses controlling for baseline adherence and COVID-19 cases per million on the day of data collection in that country, finding the same pattern of results as confirmatory analyses. We report these analyses in *Table S4* in *Supplemental Information* and focus the text on confirmatory analyses without these exploratory covariates.

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controlled motivation between the autonomy-supportive message and controlling message conditions, $r_p = -.027$, 95% CI $[-.039, -.015]$.

Feelings of Defiance. Across conditions, feelings of defiance were low. The autonomy-supportive message led to lower feelings of defiance than the controlling message, $r_p = -.064$, 95% CI $[-.076, -.052]$. However, we did not find a difference between the no-message and the controlling message conditions, $r_p = -.003$, 95% CI $[-.015, .009]$.

Short- and Long-Term Behavioral Intentions. People generally intended to socially distance in the next week and intended to continue socially distancing for the majority of the next six months. The autonomy-supportive message condition did not yield differences in one-week social distancing intentions from the controlling message condition, $r_p = .009$, 95% CI $[-.001, .021]$, nor did the no-message condition, $r_p = .017$, 95% CI $[-.005, .029]$. Similarly, the autonomy-supportive message condition did not yield differences in social distancing intentions in the next six months from the controlling message condition, $r_p = -.010$, 95% CI $[-.023, .001]$, nor did the no-message condition, $r_p = -.001$, 95% CI $[-.014, .012]$. Thus, we did not find that conditions differed in short- or long-term behavioral intentions to socially distance.

Hypothesis 2

Feelings of Defiance. As expected, autonomous motivation predicted lower feelings of defiance ($r_p = -.522$, 95% CI $[-.530, -.513]$). Additionally, controlled motivation predicted higher feelings of defiance ($r_p = .222$, 95% CI $[-.211, .234]$).

Short- and Longer-Term Behavioral Intentions. Autonomous motivation was associated with greater intentions to socially distance in the next week, $r_p = .433$, 95% CI $[-.423, .442]$, whereas controlled motivation was not related to short-term behavioral intentions, $r_p = -.006$, 95% CI $[-.018, .012]$. Autonomous motivation was positively associated with behavioral

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intentions to socially distance in the next six months, $r_p = .465$, 95% CI [.456, .474], whereas controlled motivation was negatively associated with longer-term behavioral intentions, $r_p = -.102$, 95% CI [-.115, -.090].

Exploratory Analyses

We conducted exploratory analyses using the same analytical approach to test our hypotheses on a subsample of participants who took the study within the first month of their country enacting lockdowns and other policies enabling social distancing ($n = 1,981$; see *Table 4*).³ The rationale for this analysis was to examine whether the effects of our manipulation might be larger early-on in the pandemic. In this analysis, we also included a covariate – country’s total cases per million – to test for the possibility that the country-specific incidence rate may predict motivation, feelings of defiance, and behavioral intentions. Results showed evidence for an additional experimental effect: the autonomy-supportive message increased autonomous motivation to engage in social distancing relative to the controlling message, $r_p = .117$, 95% CI [.073, .160]. The effect of the controlling message increasing controlled motivation to engage in social distancing relative to no message remained, $r_p = -.107$, 95% CI [-.151, -.064]. We also observed a larger effect of the autonomy-supportive message eliciting lower feelings of defiance than the controlling message in this subsample, $r_p = -.217$, 95% CI [-.258, -.175]. Just as in the full sample, we did not find evidence of a difference between the controlling and no-message conditions on defiance, nor did we find condition differences on short or long-term behavioral intentions. With respect to our exploratory covariate, we found that country-specific incidence

³ We conducted exploratory analyses prior to peer review that focused on countries with available data in April, 2020. These analyses found the same pattern of results and are described in prior preprint versions: <https://psyarxiv.com/n3dyf/>.

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rate correlated with greater intentions for social distancing in the next six months, $r_p = .445$, 95% CI [.410, .479].

Discussion

Public health communications play a critical role in managing health emergencies, including during pandemics, to motivate people to engage in behaviors like hand washing, mask wearing, vaccine uptake, and social distancing (26). Here, we tested motivational qualities (autonomy-supportive vs. controlling) of messages about social distancing in individuals recruited across 89 countries. The aim was to identify empirically-supported communication strategies that can be generalized cross-culturally to inform public health practices not only in this but also in future global health emergencies.

We found evidence for two experimental effects: 1) The controlling, pressuring message increased controlled motivation to follow recommendations out of guilt and fear of social punishment more than the messages to which participants had been previously exposed, and 2) The autonomy-supportive message that promoted agency and ownership lowered feelings of defiance relative to the controlling message. Furthermore, exploratory analyses focusing on message delivery early-on in the pandemic (i.e., within the first month after countries instituted lockdowns and other policies urging social distancing) found a third effect: compared to the controlling message, the autonomy-supportive message increased autonomous motivation, or internalizing the value of social distancing. The experimental effects are small according to Cohen's benchmarks (29), but they were in line with effect sizes observed in a meta-analysis of health messaging campaigns, average $r = .09$, 95% CI [.07, .10], r s ranging from .04 – .15. Notably, this meta-analysis (30) found that effects tend to be smaller for media campaigns motivating avoidance behaviors (e.g., average effect size for smoking cessation media campaigns

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was $r = .03$, 95% CI [.02, .04]), which could explain the small effect sizes we found when motivating people to avoid gathering with others.

However, we did not find evidence for effects of either autonomy-supportive or controlling messages on short- or long-term intentions to follow social distancing recommendations. We consider several possibilities that may contribute to the lack of messaging effects on behavioral intentions. First, it could be due to a ceiling effect of adherence to social distancing recommendations, making it difficult to increase adherence that is already very high. Second, by the time data collection started in mid-April 2020, participants had already been exposed to hundreds, if not thousands, of messages promoting social distancing with varying motivational content. As a result, the potential impact of a single message on people's short-term and long-term intentions to engage in social distancing may be negligible relative to a context where participants were exposed to a new health message for the first, and potentially only, time. As well, the 'dosage' of our intervention - one brief (two minute) written message - is likely less effective than receiving autonomy support during an intervention that might last weeks or months (17). Asking people to alter their daily lives to abstain from social interactions might require more time and effort than the brief online message we provided. Finally, there may be complex factors preventing social distancing (e.g., maintaining one's livelihood, traveling to care for sick relatives) that may require tangible, economic interventions before messages can have an impact (31).

Compared to the experimental effects of motivational messages, people's existing motivations for social distancing were better predictors of behavioral intentions, fully supporting Hypothesis 2. In particular, those who reported higher motivation driven by the value and importance of social distancing expressed greater behavioral intentions to engage in social

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distancing in both the short-term and long-term. Conversely, following social distancing rules out of guilt and fear of social punishment correlated with lower long-term behavioral intentions. Further, exploratory analyses focused on the first wave of the pandemic found that higher daily cases were associated with greater long-term intentions to socially distance.

Taken together, results suggest that intentions to adhere to social distancing recommendations were explained more by people's existing motivations and perceptions of viral risk than the messages used in this study. From this data, we can conclude only that autonomy-supportive versus controlling aspects of messages urging social distancing mattered in terms of affecting public sentiments toward social distancing (e.g., increasing feelings of defiance), but not people's intention to carry it out. Even so, public sentiment plays a key role in supporting public health measures and in the effectiveness of managing health emergencies (32, 33).

Design Limitations and Future Directions

First, due to convenience sampling methods, distributions of study variables suggest that our sample was highly autonomously motivated, already engaged in social distancing, and had very low feelings of defiance. Therefore, our results may not be generalizable to those who might have resisted social distancing or those who lived in areas where social distancing rules were not imposed. Additionally, we did not investigate whether message type (autonomy-supportive or controlling) might be more or less effective in influencing outcomes as a function of its source/communicator (e.g., expertise; trustworthiness) (34, 35), cultural context (e.g., individualistic-collectivistic; democratic-authoritarian; cultural tightness-looseness; interpersonal distance preferences) (36–38), local or national infection rates or legal restrictions (6). For example, a recent study by Gelfand et al. (37) suggests that countries that score higher on cultural tightness show lower death rates compared to countries with looser cultures, which tend

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to be less strict about norm deviance. As such, it seems plausible that cultural tightness vs. looseness may impact how motivational messages are interpreted, and this should be investigated in future work. Although the current study aimed to identify generalizable benefits and harms of different motivational communication styles, we encourage researchers to use this dataset and the larger PSACR dataset (<https://osf.io/gvw56/>) to examine these and other questions.

Conclusions

We conclude that in a public health context, autonomy-supportive messages have some benefits over controlling messages for motivation and feelings of defiance (though we did not find evidence that messages mattered for people's behavioral intentions). Messaging effects on motivation and feelings of defiance observed in this study were small, but they likely have meaningful real-world impacts when accumulated across time and global populations (39, 40), whereas their effect on intentions to comply with social distancing recommendations likely do not. The strength of the manipulation used in this study is the ease and efficiency of producing and digitally disseminating these brief messages that can reach a large number of people in a short amount of time. Findings may have similar applications for other public health behavioral recommendations including mask wearing, hand-washing, self-quarantining after exposure, and vaccination, for which evidence of defiance has also been observed (41). Readers seeking further guidance for applying self-determination theory to motivate COVID-19 related behavioral recommendations may also review Martela et al. (42) and Bradshaw et al. (43). Finally, while SDT principles for strategic communication likely apply to motivating other behaviors of interest to public health stakeholders, communications aimed at modifying behavior should be evaluated on many dimensions, including ease of implementation and sustainability of impacts, such as

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with the RE-AIM (Reach, Effectiveness, Adoption, Implementation, and Maintenance) framework (44).

This study represents a major undertaking and truly international collaboration, involving the coordination of labs in 89 different countries and collecting a total sample of 25,718 participants. The strongest findings from this research support the generalizability of meaningful and differential relations between people's existing motivations on public health compliance intentions, suggesting benefits of cultivating autonomous motivation and limiting controlled motivation. The effects of messages were more modest: the controlling message increased feelings of defiance relative to the autonomy-supportive message, and increased controlled motivation - a less optimal form of motivation associated with lower intentions to socially distance - relative to no message. This research, including the cross-national sample and transparent reporting of materials and data (<https://osf.io/fc9y7/>), can help advance future research and applications of evidence-based health communication on a global scale for the current COVID-19 pandemic and for future public health crises.

Materials and Methods

This study was one of three studies in the Psychological Science Accelerator COVID-19 Rapid Project (PSACR; see <https://psyarxiv.com/x976j/> for details about logistics and additional measures administered). Through the Psychological Science Accelerator (PSA) (45), the methodological approach, measures, and analytic strategy received extensive feedback from co-authors and external reviewers before data collection began.

Participants

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Through the PSACR project, data were collected from approximately 186 labs⁴ across 88 autonomous regions and countries (PSA network labs). Additionally, data from 26 labs across 17 countries (with one non-overlapping country) were collected from self-determination theory (SDT) network labs (invited through the SDT listserv).⁵ Participating labs recruited participants via local university subject pools or relied on social media posts and emails to invite those in their personal networks to participate. Additionally, our sample also included 5,304 additional participants recruited through semi-representative panels (quota matched to the general population in terms of sex and age) from the following countries: Austria, China, Egypt, Japan, Kenya, Mexico, Nigeria, Romania, Russia, South Africa, South Korea, Sweden, Switzerland, Thailand, Turkey, the United Kingdom, and the United States (with approximately 270 participants per country, on average). Participants' compensation differed depending on how they were recruited and which lab recruited them. As such, some participants received payments, others received course credit at their university, and some did not receive compensation (for more details on recruitment and compensation, see <https://psyarxiv.com/x976j/>).

After data exclusions (see *Figure 1*), our final sample was 25,718 participants across 89 countries, representing all inhabited continents. See *Supplemental Information Table S1*, for a list of sample sizes corresponding to each country. Of the total sample, 63.3% identified as female ($n = 16,273$), 33.6% identified as male ($n = 8,636$), 1.1% indicated that male and female categories did not fit for them ($n = 288$), and 2% preferred not to respond. The age of the sample ranged between 18 and 89 with a mean age of 37 years ($SD = 15.6$).

⁴ This reflects the number of labs that the PSACR has ethics documentation for data collection; it is possible that a small number of labs may have collected data for another PSACR study (001 or 002) but not ours (003).

⁵ All PSA and SDT researchers made at least two contributions to the study (data collection, study design, translation efforts, analysis, reviewing code, study administration, or writing) and approved the manuscript's submission in order to be included as coauthors. Please see the contribution statement for each author's contribution.

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Experimental Manipulation

Participants were randomly assigned to an autonomy-supportive message condition, a controlling message condition, or a no-message condition. The autonomy-supportive and controlling message conditions presented comparable information about social distancing, including its definition, its implications for public health during the COVID-19 outbreak, and neutral, informative behavioral recommendations. Alongside this basic content, both messages contained theory-based motivational elements shown in prior manipulations to influence motivation (15, 46). Specifically, those in the *autonomy-supportive message* condition read an article that provided (a) perspective taking (e.g., acknowledging how difficult it is to alter one's daily life), (b) a meaningful rationale (e.g., explaining why social distancing is effective and important for slowing transmission), and (c) a sense of having choice over one's own behavior within the practical constraints of the situation. In comparison, those in the *controlling message* condition read an article that paired information with coercion, shame, and pressure, including the use of demanding language such as 'should' and 'must'. Finally, those in the *no-message* condition did not read any message; instead, they directly responded to the outcome measures.

Measures

For all multi-item measures, items were reverse scored where appropriate, and then combined into composites for our variables. Per the preregistration, if a composite variable did not have acceptable reliability ($\omega_{total} > .70$), we retained items with corrected item-total correlations exceeding .30 (see *Table 1*). The wording of outcome items differed slightly depending on condition. In the autonomy-supportive and controlling message conditions, items referred to "social distancing recommendations in this article", while in the no-message condition, items referred to "social distancing recommendations" (not tied to an article).

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Autonomous and Controlled Motivation

Following random assignment to see an autonomy-supportive message, a controlling message, or no message, participants completed a measure of their motivation to follow social distancing recommendations. This measure was adapted from a previous measure of Perceived Locus of Causality (47, 48) for the behavior of social distancing. Participants responded to the prompt “I plan to follow social distancing recommendations [in this article] because” with four autonomous and four controlled reasons for doing so. Example items assessing autonomous motivation included “the recommendations reflect my values” and “it is personally important to me to follow them.” Example items assessing controlled motivation included “because others would disapprove of me if I did not” and “I would feel guilty if I did not follow the recommendation.” The items were paired with a 7-point scale (1 = *strongly disagree*, 7 = *strongly agree*). Autonomous and controlled motivation items were aggregated into two separate variables for analyses as both scales showed good reliability (autonomous motivation: $\omega = .90$; controlled motivation: $\omega = .77$).

Feelings of Defiance

Feelings of defiance were measured with four items adapted from Vansteenkiste et al. (49). Items measured feelings of defiance about “recommendations [in this article] on social distancing, or staying home as much as possible” and were rated on a 7-point scale (1 = *strongly disagree*, 7 = *strongly agree*). The items were: “make me feel like I want to do exactly the opposite”, “feel aggravating”, “feel like an intrusion”, and “make me want to resist attempts to influence me”. These items showed good reliability ($\omega = .89$).

Short-Term and Long-Term Behavioral Intentions

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Intentions were measured at a more abstract level of actions (e.g., “following recommendations to participate in social distancing”) as well as at a lower and more concrete level of actions (e.g., “avoid gatherings with friends”) as both contribute to goal pursuit (see review by Freund & Hennecke (50)). Our behavioral intention items were adapted from Armitage and Conner (51) and Flannelly and colleagues (52), following an adaptation by McGarrity and Huebner (53), to assess participants’ intentions for social distancing. Items assessing short-term intentions asked participants how likely they would be to “follow the recommendation to participate in social distancing” and avoid “gatherings with friends”, “going to crowded areas”, “taking non-essential shopping trips” in the next week. The response scale ranged from 1 = *extremely unlikely* to 7 = *extremely likely*. The scale showed good reliability for all 4 items combined ($\omega = .88$). The measure for long-term intentions asked “assuming the guidelines [described in the article] last for six months, how long do you intend on avoiding the following in-person places and activities”, and the list of activities included: “restaurants”, “gatherings with friends”, “traveling”, “going in crowded areas”, “non-essential shopping trips”, “getting a haircut or going to the salon”, and “going to the gym or fitness classes.” These items were rated in one-week increments using a dropdown menu from 0 to 24 weeks. An average score was calculated for all seven items as they showed good reliability ($\omega = .92$).

Demographic Information

Demographics assessed by both PSA and SDT labs were age, gender, education, and country. The PSACR general survey (<https://osf.io/ecba8/>) also collected additional demographic and background variables related to COVID-19 beyond the scope of this study.

Design and Procedure

All data collection labs followed the ethical guidelines of their institutions. Guidelines

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for Internet-based data collection were followed where applicable (54). Each lab (a) received ethical approval from their local Institutional Review Board (IRB), (b) gained approval through Ashland University's Human Subject's Review Board (for the PSA labs) or through Illinois Institute of Technology's IRB (for the SDT labs), or (c) did not require local IRB approval for data collection. All participants provided informed consent before entering the study.

Participants completed the study online between mid-April 2020 and the end of September 2020. Data was collected using *formr* (55) for PSACR labs and Qualtrics for SDT labs. Some participants completed our study along with another PSACR experiment in random order; order was recorded to examine potential carryover effects. For more information about study design, translations, and measures of baseline social distancing adherence and perceived control used for the manipulation check see *Supplemental Information*.

Analytic Plan

Modelling Approach

All analyses were conducted in R (Version 1.3.1056). To account for the nested structure of the data, we used mixed-effects models in the statistical package *lme4* (version 1.1-21) (56). In testing Hypothesis 1, the controlling message condition served as the reference group and was compared to the autonomy-supportive and no-message conditions. For Hypothesis 2, controlled and autonomous motivation were entered as simultaneous predictors.

We focus on random intercept models in the text. We estimated models with and without random slopes, with nearly identical results (see *Tables 2 and 3*). The equation of the random intercept models is as follows:

$$Y_{ic} = \beta_0 + \beta_1 \cdot NoMessage_{ic} + \beta_2 \cdot AutonomySupportive_{ic} + u_{0c} + e_{ic}$$

In this equation, each observation is clustered within grouping variable c (country).

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β_0 is the overall intercept for reference group (the controlling message condition) and u_{0c} is the random effect of the intercept. The fixed effects include β_1 and β_2 , which are the slopes representing the difference between the no-message condition and the autonomy-supportive message condition, respectively, and the controlling message condition.

We used the *TOSTER* package (version 0.3.4) (57) to illustrate fixed effects and their 95% CIs (see *Figure 3*) and calculated partial r (r_p) values (standardized effect sizes) using the *r2beta* function in *r2glmm* (version 0.1.2) (58).

Exploratory Analyses

Data collection launched in April 2020 and continued through September 2020. We speculated that communication strategies urging social distancing might have been more impactful early-on in our data collection period, before message fatigue, or exhaustion from prolonged exposure to social distancing messages, set in (21). Thus, we explored message effects among those who completed the study within 30 days of their country first enacting policies aimed at promoting social distancing. To identify those participants, we used the publicly available dataset, *Our World in Data* (59). From this dataset, we extracted two types of information. First, we extracted stringency index data from the Oxford COVID-19 Government Response Tracker (60) to identify when there was the steepest increase in lockdowns and other policies aimed at social distancing (e.g., school closures) within two consecutive weeks. This happened in March and early April for all countries available in our sample. We restricted the sample in exploratory analyses to those who completed the study within the first 30 days after their country's rise in these policies. Second, we extracted data that came from the COVID-19 Data Repository by the Center for Systems Science and Engineering (CSSE) at Johns Hopkins University (61) on the incidence rate in a country (cases per million to account for population

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differences) at the time participants completed the study. We defined country-specific incidence rate as a covariate in exploratory analyses, allowing us to test the possibility that motivation, feelings of defiance, and behavioral intentions to socially distance would be predicted by case numbers in that country. Together, this analytic approach provided a more sensitive test of a country's unique pandemic experience during its first wave. Because some countries had small amounts of data during this early time period, we only included random intercepts but not random slopes for these analyses.

Open Science Statement

The preregistration, materials, analytic plan, data, and code for this study are openly available on the Open Science Framework (OSF) website at this link: <https://osf.io/fc9y7/>.

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Table 1*Reliabilities, means, standard deviations, and correlations with confidence intervals*

Variable	<i>Alpha/ Omega</i>	<i>ICC</i>	<i>M(SD)</i>	Condition <i>M(SD)</i>			1	2	3	4	5	6
				C	NM	AS						
1. Baseline adherence	.88/.91	0.15	5.24 (1.60)	5.22 (1.62)	5.26 (1.60)	5.23 (1.59)						
2. Perceived control ^a	.67/.67	0.04	3.79 (1.72)	4.15 (1.78)	3.76 (1.67)	3.46 (1.63)	-.13** [-.14, -.12]					
3. Autonomous motivation	.96/.97	0.14	6.02 (1.18)	6.01 (1.21)	5.96 (1.22)	6.09 (1.10)	.38** [.37, .39]	-.35** [-.36, -.34]				
4. Controlled motivation	.71/.77	0.10	4.53 (1.42)	4.68 (1.42)	4.34 (1.45)	4.58 (1.38)	.10** [.09, .11]	.11** [.10, .12]	.28** [.27, .29]			
5. Defiance	.91/.93	0.05	2.71 (1.60)	2.79 (1.68)	2.79 (1.58)	2.54 (1.53)	-.22** [-.24, -.21]	.52** [.51, .53]	-.47** [-.48, -.47]	.04** [.03, .05]		
6. Intention to social distance next 1 week	.91/.93	0.13	5.57 (1.53)	5.54 (1.54)	5.60 (1.53)	5.56 (1.52)	.57** [.57, .58]	-.16** [-.17, -.15]	.46** [.45, .47]	.14** [.13, .16]	-.28** [-.29, -.26]	
7. Intention to social distance next 6 months ^b	.90/.92	0.09	17.51 (6.74)	17.61 (6.77)	17.56 (6.68)	17.37 (6.79)	.39** [.38, .40]	-.28** [-.30, -.27]	.47** [.46, .48]	.05** [.03, .06]	-.41** [-.42, -.40]	.43** [.42, .44]

Note. $N = 25,718$; M and SD are used to represent mean and standard deviation, respectively. Values in square brackets indicate the 95% confidence interval for each correlation. The confidence interval is a plausible range of population correlations that could have caused the sample correlation (Cumming, 2014).

Condition: C = Controlling; NM = No message, AS = Autonomy-supportive.

** $p < .001$

^a Only two items were included for this variable: "...try to pressure people", and "...aren't very sensitive to people's needs". The original 3-item measure yielded $\alpha = .55$ and $\omega = .62$. We preregistered that if α or $\omega < .70$, the composite would only include items with corrected item-total correlations above 0.30. See more details in *Supplemental Information*.

^b Excluding erroneous data

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Table 2

Random intercept-only models testing confirmatory effects of experimental conditions (Hypothesis 1) and autonomous and controlled motivation (Hypothesis 2) on outcomes

Outcome	term	<i>B</i>	<i>SE</i>	<i>t</i>	<i>df</i>	<i>r_p</i>	95% CI around <i>r_p</i>		<i>p</i>	Variance of random effects
							Lower	Upper		
Autonomous motivation Hypothesis 1	Controlling (intercept)	6.00	0.06	106.56	75.38	.048	.036	.061	<.001	0.192
	vs. No message	-0.04	0.02	-2.09	25648.68	-.012	-.024	.001	.036	
	vs. Autonomy-supportive	0.10	0.02	5.83	25645.52	.034	.022	.046	<.001	
Controlled motivation Hypothesis 1	Controlling (intercept)	4.56	0.06	78.20	77.04	.099	.087	.112	<.001	0.198
	vs. No message	-0.34	0.02	-16.25	25645.61	-.096	-.108	-.084	<.001	
	vs. Autonomy-supportive	-0.09	0.02	-4.51	25641.64	-.027	-.039	-.015	<.001	
Defiance Hypothesis 1	Controlling (intercept)	2.77	0.05	55.77	70.20	.073	.061	.085	<.001	0.127
	vs. No message	-0.01	0.02	-0.45	25412.13	-.003	-.015	.009	.656	
	vs. Autonomy-supportive	-0.25	0.02	-10.50	25406.32	-.064	-.076	-.052	<.001	
Defiance Hypothesis 2	Intercept	6.19	0.07	93.51	290.93	.523	.515	.532	<.001	0.113
	Autonomous motivation	-0.75	0.01	-94.61	25338.81	-.522	-.530	-.513	<.001	
	Controlled motivation	0.23	0.01	36.05	25416.45	.222	.211	.234	<.001	
Intention to avoid 1w Hypothesis 1	Controlling (intercept)	5.40	0.07	75.76	74.21	.017	.007	.030	<.001	0.298
	vs. No message	0.06	0.02	2.92	25234.47	.017	.005	.029	.004	
	vs. Autonomy-supportive	0.03	0.02	1.55	25230.80	.009	.001	.021	.121	
Intention to avoid 1w Hypothesis 2	Intercept	1.98	0.07	27.92	209.14	.446	.437	.456	<.001	0.169
	Autonomous motivation	0.58	0.01	75.36	25253.05	.433	.423	.442	<.001	
	Controlled motivation	-0.01	0.01	-0.98	25265.99	-.006	-.018	.012	.327	
Intention to avoid 6m Hypothesis 1*	Controlling (intercept)	17.16	0.27	64.16	71.51	.012	.003	.025	<.001	3.994
	vs. No message	-0.01	0.10	-0.10	24603.91	-.001	-.014	.012	.923	
	vs. Autonomy-supportive	-0.17	0.10	-1.69	24599.23	-.010	-.023	-.001	.091	
Intention to avoid 6m Hypothesis 2*	Intercept	2.48	0.29	8.69	292.32	.466	.457	.475	<.001	2.087
	Autonomous motivation	2.76	0.03	80.00	24521.60	.465	.456	.474	<.001	
	Controlled motivation	-0.45	0.03	-16.01	24605.03	-.102	-.115	-.090	<.001	

Note. *SE*, standard error; *df*, degrees of freedom; *Bs* are unstandardized coefficients; *r_p* is the partial standardized effect size for each coefficient; *CI*, Confidence Interval; *1w*, 1 week; *6m*, 6 months; *Excluding erroneous data;
N = 25,718; Controlling: *n* = 8,368; No message: *n* = 8,790; Autonomy-supportive: *n* = 8,560; The controlling message was the reference group; We report three decimal places for *r_p* and its CI since our interval null is *r_p* = -.025 to .025, and two decimals for all other values.

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Table 3

Maximal models testing the confirmatory effect of experimental conditions (Hypothesis 1) and autonomous and controlled motivation (Hypothesis 2) on outcomes, only using countries with a sample size of 210 or above

Outcome	term	<i>B</i>	<i>SE</i>	<i>t</i>	<i>df</i>	<i>r_p</i>	95% CI around <i>r_p</i>		<i>p</i>	Variance of random effects
							Lower	Upper		
Autonomous motivation Hypothesis 1	Controlling (intercept)	5.99	0.08	73.98	34.83	.046	.034	.060	<.001	0.222
	vs. No message	-0.03	0.03	-1.25	23.71	-.012	-.024	-.001	.224	0.012
	vs. Autonomy-supportive	0.10	0.03	3.50	26.29	.033	.020	.046	<.001	0.013
Controlled motivation Hypothesis 1	Controlling (intercept)	4.66	0.08	59.55	34.52	.097	.085	.110	<.001	0.204
	vs. No message	-0.33	0.03	-11.97	19.88	-.094	-.107	-.082	<.001	0.007
	vs. Autonomy-supportive	-0.10	0.02	-3.93	25.08	-.027	-.040	-.014	.001	0.003
Defiance Hypothesis 1	Controlling (intercept)	2.79	0.06	46.37	32.80	.064	.052	.077	<.001	0.111
	vs. No message	-0.04	0.06	-0.69	33.19	-.011	-.024	-.001	.495	0.100
	vs. Autonomy-supportive	-0.24	0.06	-3.69	33.50	-.060	-.073	-.047	.001	0.114
Defiance Hypothesis 2 ^a	(intercept)	5.98	0.19	32.14	31.66	.518	.510	.527	<.001	1.041
	Autonomous motivation	-0.74	0.03	-24.60	34.05	-.515	-.524	-.506	<.001	0.027
	Controlled motivation	0.26	0.02	11.71	32.28	.244	.232	.256	<.001	0.015
Intention to avoid 1w Hypothesis 1 ^a	Controlling (intercept)	5.37	0.09	60.95	34.61	.016	.006	.030	<.001	0.260
	vs. No message	0.06	0.03	1.82	20.54	.015	.002	.028	.083	0.011
	vs. Autonomy-supportive	0.05	0.02	2.04	521.12	.013	.001	.026	.042	0.000
Intention to avoid 1w Hypothesis 2 ^a	(intercept)	2.19	0.20	10.71	34.58	.426	.416	.437	<.001	1.313
	Autonomous motivation	0.55	0.03	16.65	34.90	.414	.404	.424	<.001	0.034
	Controlled motivation	-0.01	0.01	-1.54	12.78	-.011	-.024	-.001	.147	0.000
Intention to avoid 6m Hypothesis 1 ^{a***}	Controlling (intercept)	17.26	0.33	52.09	34.63	.007	.002	.022	<.001	3.521
	vs. No message	0.07	0.12	0.59	20.83	.004	-.013	.017	.561	0.097
	vs. Autonomy-supportive	-0.05	0.15	-0.32	17.70	-.003	-.016	.013	.755	0.248
Intention to avoid 6m Hypothesis 2 ^{a***}	(intercept)	3.36	0.83	4.02	29.92	.454	.444	.464	<.001	20.704
	Autonomous motivation	2.69	0.13	21.18	29.64	.453	.444	.463	<.001	0.474
	Controlled motivation	-0.49	0.07	-7.32	28.65	-.111	-.124	-.099	<.001	0.112

Note. *SE*, standard error; *df*, degrees of freedom; *Bs* are unstandardized coefficients; *r_p* is the partial standardized effect size for each coefficient; *CI*, Confidence Interval; *1w*, 1 week; *6m*, 6 months; ^aExcluding erroneous data; *N* = 23,554; Controlling: *n* = 7,688; No message: *n* = 8,059; Autonomy-supportive: *n* = 7,807; The controlling message was the reference group; We report three decimal places for *r_p* and its CI since our interval null is *r_p* = -.025 to .025, and two decimals for all other values.

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Table 4

Random intercept-only models testing Hypothesis 1, the effects of condition on outcome variables for sample of participants who completed surveys within 30 days since their country's rise in restrictions

		<i>B</i>	<i>SE</i>	<i>t</i>	<i>df</i>	<i>r_p</i>	95% CI around <i>r_p</i>		<i>p</i>	Variance of random effects
Autonomous motivation	Controlling (intercept)	6.35	0.07	92.55	3.07	.120	.082	.167	<.001	0.003
	vs. No message	0.07	0.04	1.68	1976.40	.038	.003	.081	.094	
	vs. Autonomy-supportive	0.24	0.05	5.24	1980.63	.117	.073	.160	<.001	
	Covariate: Total cases per million	-2.78E-06	4.26E-05	-0.07	2.39	.003	.001	.051	.953	
Controlled motivation	Controlling (intercept)	4.97	0.24	20.91	5.43	.123	.085	.170	<.001	0.068
	vs. No message	-0.36	0.07	-4.89	1976.52	-.107	-.151	-.064	<.001	
	vs. Autonomy-supportive	-0.23	0.08	-2.92	1977.58	-.064	-.108	-.021	.004	
	Covariate: Total cases per million	1.01E-04	1.49E-04	0.68	6.97	.064	.020	.108	.519	
Defiance	Controlling (intercept)	2.66	0.09	29.17	2.23	.227	.188	.270	.001	0.004
	vs. No message	-0.42	0.07	-5.83	1955.26	-.130	-.173	-.087	<.001	
	vs. Autonomy-supportive	-0.74	0.07	-9.84	1960.96	-.217	-.258	-.175	<.001	
	Covariate: Total cases per million	1.10E-04	5.49E-05	2.01	1.51	.074	.030	.118	.222	
Intention to avoid next 1w	Controlling (intercept)	6.44	0.06	104.98	0.94	.070	.037	.120	.008	0.001
	vs. No message	0.04	0.06	0.75	1929.64	.017	.001	.062	.451	
	vs. Autonomy-supportive	0.10	0.06	1.66	1943.00	.038	.003	.082	.097	
	Covariate: Total cases per million	7.05E-05	3.49E-05	2.02	0.52	.059	.015	.103	.433	
Intention to avoid next 6m	Controlling (intercept)	15.71	2.07	7.59	5.91	.445	.411	.479	<.001	14.316
	vs. No message	-0.38	0.22	-1.75	1893.51	-.029	-.074	-.002	.080	
	vs. Autonomy-supportive	-0.25	0.23	-1.10	1892.62	-.018	-.063	-.001	.273	
	Covariate: Total cases per million	3.08E-03	8.80E-04	3.50	45.63	.445	.410	.479	.001	

Note. *SE*, standard error; *df*, degrees of freedom; *B*s are unstandardized coefficients; *r_p* is the partial standardized effect size for each coefficient; *CI*, Confidence Interval; *1w*, 1 week; *6m*, 6 months; *Excluding erroneous data;

N = 1,981; Controlling: *n* = 600; No message: *n* = 760; Autonomy-supportive: *n* = 621; The controlling message was the reference group; We report three decimal places for *r_p* and its CI since our interval null is *r_p* = -.025 to .025, and two decimals for all other values.

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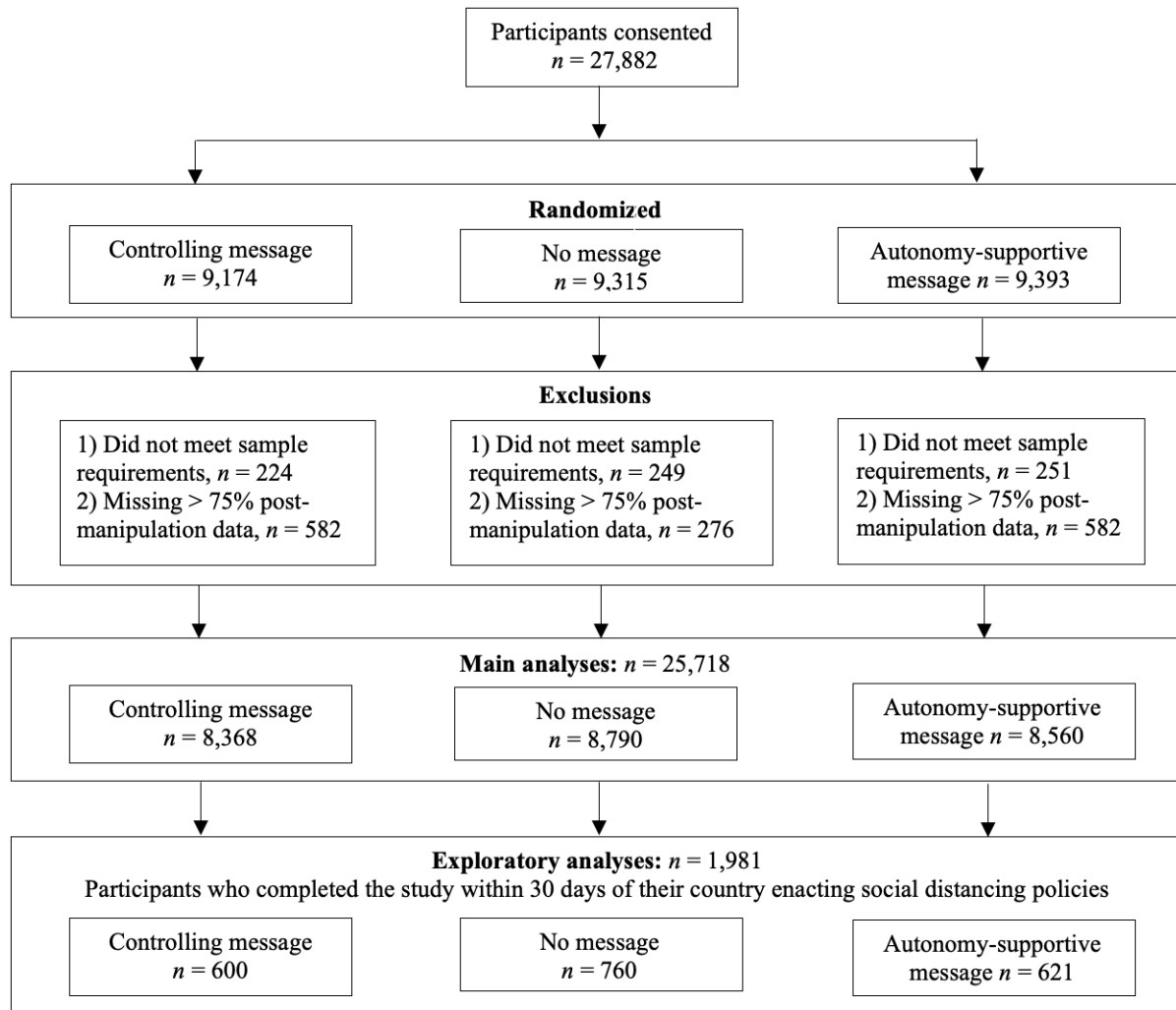


Figure 1. Flow chart delineating the final samples used in analyses

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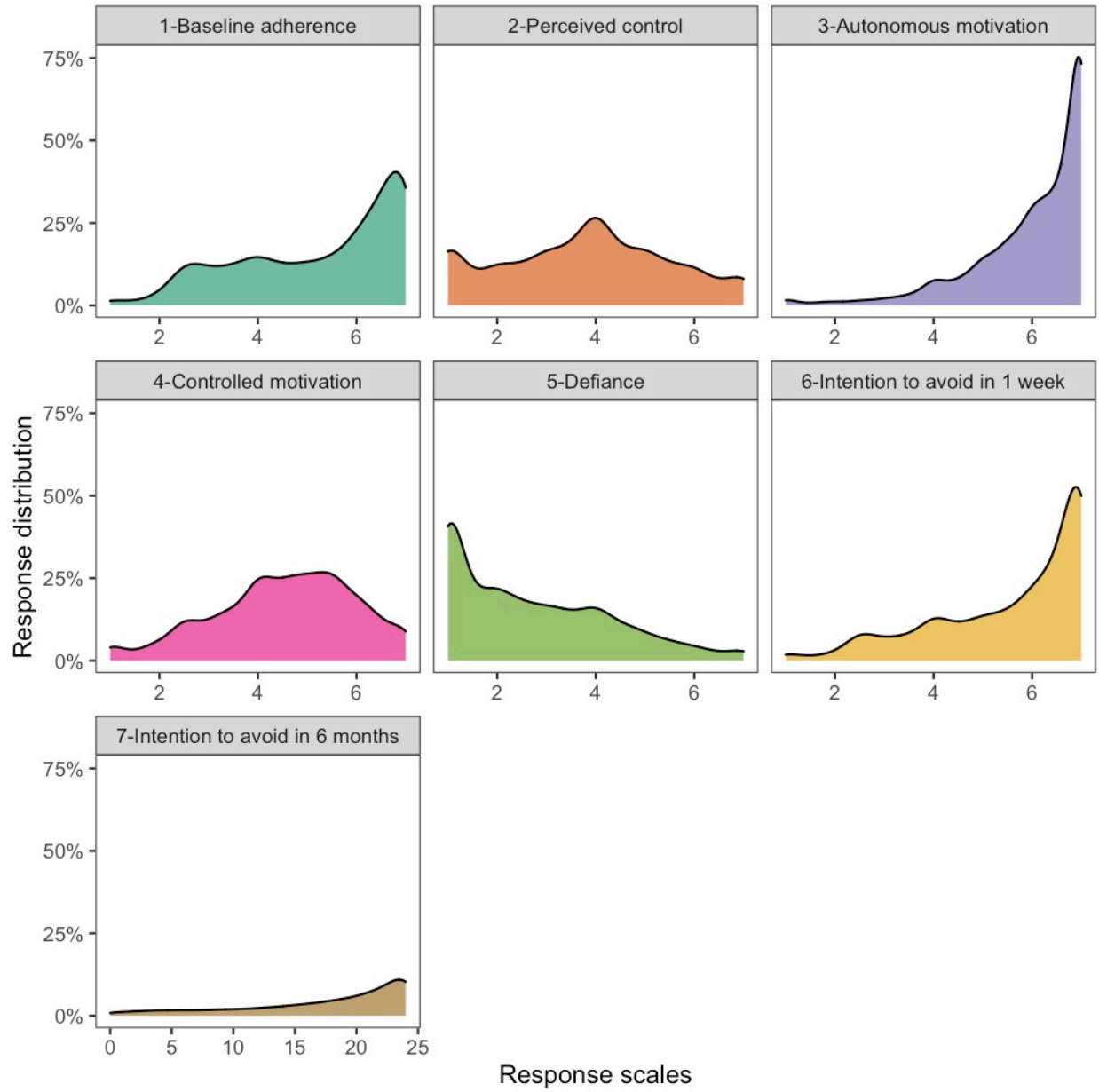


Figure 2. Data distributions for all study variables (y axis indicates proportion of sample and x axis indicates response scales)

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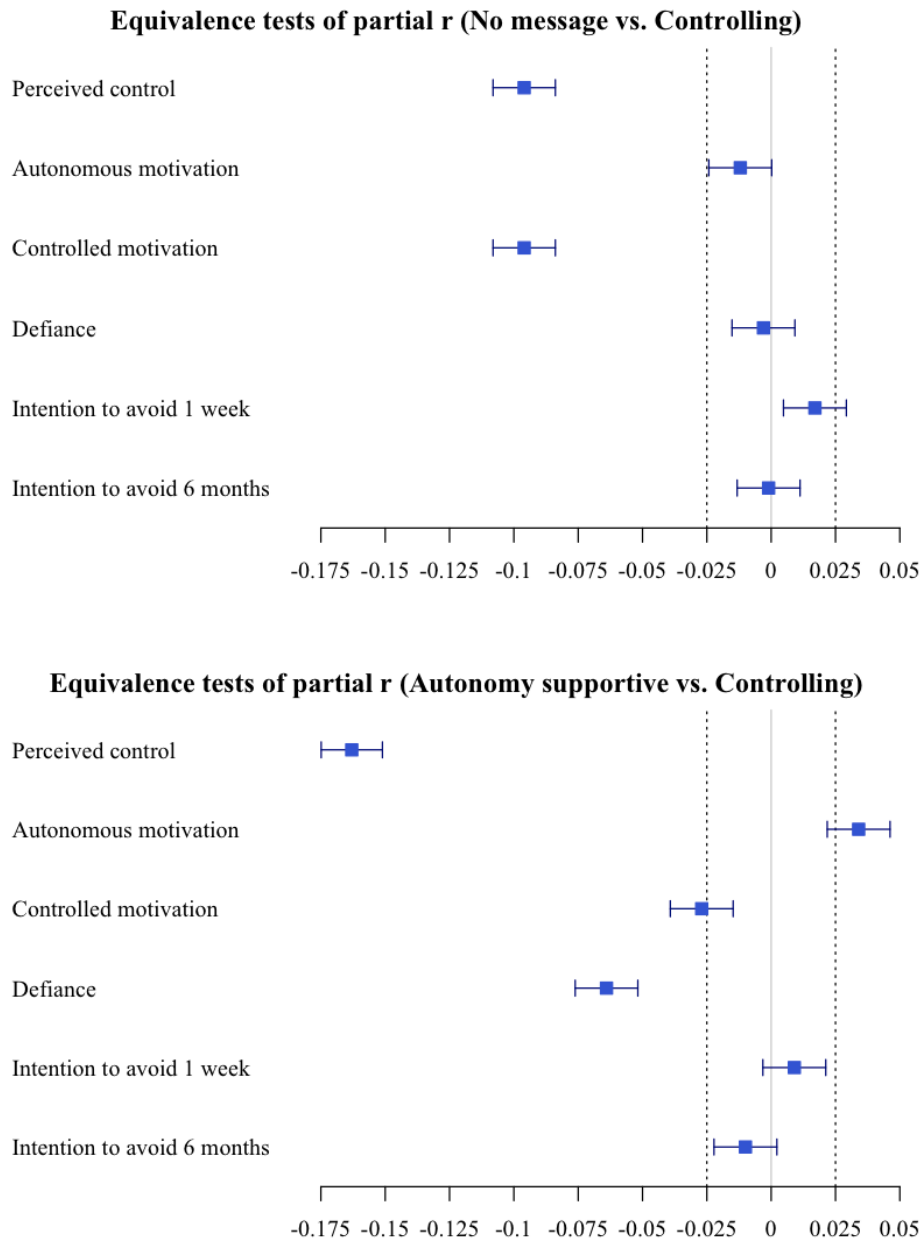


Figure 3. Illustrating confirmatory effects testing Hypothesis 1.

Note. Effect sizes are drawn from intercept-only models in Table 2 ($n = 25,718$). Values to the left of 0 indicate that no message (or the autonomy-supportive message) yielded lower scores on outcomes than the controlling message. Values to the right of 0 indicate that no message (or the autonomy-supportive message) yielded higher scores on those outcomes than the controlling message. The square represents the observed effect size and the whisker represents the 95% confidence interval (CI); if the effect and its 95% CI falls outside the dotted lines (the interval null of $r_p = -.025$ to $.025$), the effect is considered practically meaningful.