

DOMINIC P. KELLY

Department of Psychology
East Hall, 530 Church Street
Ann Arbor, MI, 48104

email: dpfkelly@umich.edu
ORCID iD: [0000-0001-5417-7379](https://orcid.org/0000-0001-5417-7379)
Twitter: [@dpfkelly](https://twitter.com/dpfkelly)

EDUCATION

University of Michigan, Ann Arbor, MI

Ph.D., Psychology

Exp. 2022

Dissertation: "Modelling person-oriented relations between cognition and personality to inform development"

Committee: Adriene M. Beltz, Ph.D. (chair), Pamela Davis-Kean, Ph.D. Robin Edelstein, Ph.D., Ioulia Kovelman, Ph.D.

M.Sc., Psychology

2019

University of Cambridge (Pembroke College), Cambridge, UK

M.Phil., Social and Developmental Psychology

2016

Thesis: "How much of the variation between and within mathematics aptitude scores can be explained by gender differences and what does this mean for the accurate assessment of latent cognitive variables?"

Award: Distinction

Mentors: Melissa Hines, Ph.D., Mark Haggard, Ph.D.

B.A., Politics, Psychology and Sociology

2014

Thesis: "Does empathy and social awareness affect perception of social distance in fairness experiments?"

Class: First (Hons.)

GRANTS AND HONORS

Daniel Katz Dissertation Fellowship in Psychology and Survey

2021

Methodology - Institute for Social Research award to support research at the intersection of survey methodology and psychology (\$25,000)

Pillsbury Graduate Research Award- Departmental award for research costs of students who have achieved candidacy (\$1000)

2021

Nan Donald Award- Departmental award for interdisciplinary psychology and sociology research (\$2500)

2020

Lorraine Nadelman Early Graduate Student Research Award-

2019

Area award for best precandidate research project (\$1000)

Rackham Graduate Student Research Grant: Precandidate- Funds provided to support independent research (\$1500)

2019

Coombs Scholarship in Mathematical Psychology- Departmental award for theoretical psychology and mathematics research (\$2000)	2019
Fulbright Postgraduate Scholar Award- Representing the United Kingdom for doctoral research in the United States (\$15,000)	2017
Dissertation grants- Grants from Pembroke College, Cambridge for master's and bachelor's degrees research (£600)	2016, 2014
Pembroke College, Cambridge studentship- Support for graduate study based on outstanding undergraduate degree grades (£9000)	2015
College book prizes- Various prizes for outstanding undergraduate examination scores at the University of Cambridge (£650)	2012 - 2014

RESEARCH ARTICLES

Demidenko, M. I., Ip, K. I., **Kelly, D. P.**, Constante, K., Goetschius, L. G., & Keating, D. P. (In press). Ecological stress, amygdala reactivity, and internalizing problems in preadolescence: Is parenting a buffer? *Cortex*, 140, 128-144.

<https://doi.org/10.1016/j.cortex.2021.02.032>

Chaku, N., **Kelly, D. P.**, & Beltz, A. M. (2021). Individualized learning potential in stressful times: How to leverage intensive longitudinal data to inform online learning. *Computers in Human Behavior*, 121, 106772.

<https://doi.org/10.1016/j.chb.2021.106772>

Kelly, D. P., & Beltz, A. M. (2020). Capturing fluctuations in gendered cognition: Validation of intensive longitudinal measures of three-dimensional mental rotations ability and verbal recall. *Assessment*. October 2020.

<https://doi.org/10.1177/1073191120952888>

Kelly, D. P., Weigard, A., & Beltz, A. M. (2020). How are you doing?: The person-specificity of daily links between neuroticism and physical health. *Journal of Psychosomatic Research*, 137, 110194.

<https://doi.org/10.1016/j.jpsychores.2020.110194>

Beltz, A. M., Loviska, A., & **Kelly, D.** (2019). No evidence for personality difference between oral contraceptive users and naturally cycling women: Implications for research on sex hormones. *Psychoneuroendocrinology*, 100, 127-130.

<https://doi.org/10.1016/j.psyneuen.2018.09.034>

Under Review and In Preparation

Kelly, D. P., & Beltz, A. M. (Under review). Spatial skills and self-perceived masculinity: Considering directionality, gender, and STEM.

Kelly, D. P., Dzera J., Demidenko, M. I., Weigard, A., Foster, K., & Beltz, A. M. (In prep.). Pubertal timing and daily adult alcohol consumption: Examining the mediating effects of alcohol beliefs by gender.

Beltz, A. M., Loviska, A., **Kelly, D. P.**, & Nielson, M. (In prep.). The link between masculinity and spatial skills is moderated by the estrogenic and progestational activity of oral contraceptives

Kelly, D. P., Richburg, A., & Davis-Kean, P. (In prep.). Meta-analytic evidence for gender differences in the relations between puberty and the development of body image and self-esteem.

Ahmed, S. F., Wang, Y., Waters, N., **Kelly, D. P.**, & Morrison, F. (In prep.). Males at the tails: How socioeconomic status shapes the gender gap.

CHAPTERS, COMMENTARIES AND APPLIED PUBLICATIONS

Kelly, D. P., Weigard, A., & Beltz, A. M. (2021). Direction of relations and idiographic-nomothetic continua in psychosomatic research: Reflections on Groen et al. (2021). *Journal of Psychosomatic Research*, 110428.

<https://doi.org/10.1016/j.jpsychores.2021.110428>

Beltz, A. M., **Kelly, D. P.**, & Berenbaum, S. A. (2020). Sex differences in brain and behavioral development. In P. Rakic & J. Rubenstein (Series Eds.), *Comprehensive developmental neuroscience (2nd ed.)*, In H. Tager-Flusberg (Vol. Ed.), Neural circuit development and function in the healthy and diseased brain, vol. 3 (pp. 585-638). Oxford, United Kingdom: Elsevier.

<https://doi.org/10.1016/B978-0-12-814411-4.00027-5>

Keating, D. P., Demidenko, M. I., & **Kelly, D.** (2019). Cognitive and neurocognitive development in adolescence. In *Reference Module in Neuroscience and Biobehavioral Psychology*. Amsterdam, The Netherlands: Elsevier.

<https://doi.org/10.1016/b978-0-12-809324-5.23636-5>

Kelly, D. (2016). *Teacher Support Material for International Baccalaureate Diploma Program Internal Assessments in Psychology*. The Hague, Netherlands: International Baccalaureate Organisation.

Under Review and In Preparation

Keating D. P., Demidenko, M. I., & **Kelly, D. P.** (Under review). Cognitive and Neurocognitive Development in Adolescence and Young Adulthood. In: Crockett, L., Carlo, G., Schulenberg, J., (Eds.) *APA Handbook of Adolescent and Young Adult Development*

MEASURES

Beltz, A. M., & **Kelly, D. P.** (2020). Intensive longitudinal assessment of mental rotations for up to 75 occasions [Measurement instrument].

<https://doi.org/10.17605/OSF.IO/M6AE8>

Beltz, A. M., & **Kelly, D. P.** (2020). Intensive longitudinal assessment of verbal recall for up to 75 occasions [Measurement instrument].
<https://doi.org/10.17605/OSF.IO/VHR7U>

CONFERENCE PROCEEDINGS

Oral Presentations

Kelly, D. P., & Beltz, A. M. (2020, March). *The person-specificity of daily links between neuroticism and physical health: A comparison of adolescents and adults*. Presentation at the Society for Research on Adolescence conference, San Diego, CA (Conference cancelled due to COVID-19 pandemic).

Kelly, D., (2019, June 17). *Measuring mathematical ability during the transition to college*. Presentation at the Mathematical Cognition and Learning Society conference, Ottawa, ON.

Beltz, A. M., Loviska, A., Foster, K. T., & **Kelly, D.** (2018, May 27). *Behavioral networks in oral contraceptive users: Exploring ovarian hormone links to gendered cognition and personality qualities*. Symposium presentation at the Association for Psychological Science Annual Convention, San Francisco, CA.

Poster Presentations

Olson, A., **Kelly, D. P.**, Richburg, A., Chung, S., & Davis-Kean, P. E. (2021, May 26). *Gender differences in how pubertal timing and pubertal status relate to disordered eating: A meta-analysis*. Poster presentation at the Association for Psychological Science Annual Convention, virtual.

Kelly, D. P., Dzera, J., Demidenko, M. I., Weigard, A., Foster, K., & Beltz, A. M. (2021, April 9). *Pubertal timing and daily adult alcohol consumption: Examining mediating effects of alcohol beliefs by gender*. Poster presentation at the Society for Research in Child Development Biennial Meeting, virtual.

Richburg, A., **Kelly, D. P.**, Olson, A., Chung, S., Swerdlow, M. & Davis-Kean, P. E. (2021, April 9). *Gender differences in how pubertal timing and status relate to body image and self-esteem: A meta-analysis*. Poster presentation at the Society for Research in Child Development Biennial Meeting, virtual.

Solomon, Z., **Kelly, D.**, & Beltz, A. M. (2020, June 1). *Gender and personality links to social media use: A partial replication and extension*. Poster presentation at the Association for Psychological Science Annual Convention, virtual.

Dzera, J., **Kelly, D.**, Weigard, A., Demidenko, M., Stone, S., Foster, K., & Beltz, A. M. (2020, June 1). *Persisting effects of pubertal timing on alcohol expectancies and use in adulthood*. Poster presentation at the Association for Psychological Science Annual Convention, virtual.

- Waters, N., **Kelly, D. P.**, & Davis-Kean, P. E. (2020, June). *Are preschool children's executive function skills causally related to math achievement? Revisiting Willoughby, Kupersmidt, and Voegler-Lee (2012)*. Poster presentation at the Mathematical Cognition and Learning Society conference, Dublin, Ireland. (Conference cancelled due to COVID-19 pandemic).
- Kelly, D. P.**, & Beltz, A. M. (2020, May). *Who uses emoji? Gender and big five personality traits are associated with emoji use in direct messaging*. Poster presentation at the Association for Psychological Science Annual Convention, Chicago, IL (Conference cancelled due to COVID-19 pandemic).
- Jande, J., **Kelly, D.**, Loviska, A. M., King, J., & Beltz, A. M. (2020, May). *The link between gendered self-concept and spatial skills is moderated by exogenous hormones: A study of oral contraceptive androgenicity*. Poster presentation at the Association for Psychological Science Annual Convention, Chicago, IL (Conference cancelled due to COVID-19 pandemic).
- Kelly, D.**, & Beltz, A. M. (2019, October 14). *The person-specificity of daily links between neuroticism and physical health in adolescence and adulthood*. Poster presentation at the International Max Planck Research School on the Life Course (LIFE) conference, Zurich, Switzerland.
- Kelly, D.**, Ahmed, S. F., Richburg, A., Anderson, C., & Davis-Kean, P. (2019, June 17). *Executive functioning and math achievement: A meta-analysis on early sex differences*. Pre-registered poster presentation at the Mathematical Cognition and Learning Society conference, Ottawa, ON.
- Wang, Y., Ahmed, S. F., **Kelly, D.**, & Morrison, F. (2019, June 17). *Sex differences in early executive function components vary by measurement type*. Poster presentation at the Mathematical Cognition and Learning Society conference, Ottawa, ON.
- Richburg, A., **Kelly, D.**, Ahmed, S., & Davis-Kean, P. (2019, April 24). *The relationship between executive functions and aggression from late childhood to early adolescence: a meta-analysis*. Poster presentation at the University of Michigan Undergraduate Research Opportunity Program Annual Research Spring Symposium, Ann Arbor, MI.
- Kelly, D.**, & Beltz, A. M. (2019, March 21). *Spatial ability and self-perceived masculinity are positively related in women but not in men*. Poster presentation at the Society for Research in Child Development Biennial Meeting, Baltimore, MD.
- Kelly, D.**, Loviska, A., & Beltz, A. M. (2019, March 7). *Validation of a 75-day intensive longitudinal measure of immediate and delayed paired verbal recall*. Poster presentation at the International Conference of Psychological Science, Paris, France.

Kelly, D., & Hines, M. (2018, October 3). *The effect of question type on sex differences in mathematics for 11th and 12th graders*. Poster presentation at SRCD DEVSEC: Conference on the Use of Secondary and Open Source Data in Developmental Science, Phoenix, AZ.

Kelly, D., Loviska, A., & Beltz, A. M. (2018, May 26). *Validation of a daily diary measure of three-dimensional mental rotations ability*. Poster presentation at the Association for Psychological Science Annual Convention, San Francisco, CA.

Loviska, A., Colton, Z., **Kelly, D.,** & Beltz, A. M. (2018, May 26). *No evidence for personality differences between oral contraceptive users and naturally cycling women: Implications for research on sex hormones*. Poster presentation at the Association for Psychological Science Annual Convention, San Francisco, CA.

INVITED SEMINARS

Kelly, D. (2020, November 9). *Daily cognition: The design and validation of open intensive longitudinal assessments*. Presentation at University of Michigan Cognitive Science Seminar series, virtual.

Kelly, D., & Ahmed, S. F. (2019, February 15). *Meta-Analyses in the Replication Crisis Era: Steps, Challenges and Best Practices*. Presentation at University of Michigan Methods Hour series, Ann Arbor, MI.

Kelly, D. (2018, September 24). *Capturing fluctuations with novel intensive longitudinal measures*. Presentation at University of Michigan Psychology Department Developmental Brownbag series, Ann Arbor, MI.

RESEARCH EXPERIENCE

University of Michigan, Ann Arbor, MI

Methods, Sex differences, and Development (M(SD)) Lab 2017 -

PI: Adriene Beltz, Ph.D.

Human Development and Quantitative Methods (HDQM) Lab 2017 -

PI: Pamela Davis-Kean, Ph.D.

University of Cambridge, Cambridge, UK

Gender Development Research Centre (GDRC) 2015 - 2017

PI: Melissa Hines, Ph.D.

Centre for Family Research 2014 - 2015

PI: Claire Hughes, Ph.D.

The Psychometrics Centre 2012 - 2013

PI: Michal Kosinski, Ph.D.

TEACHING EXPERIENCE

University of Michigan - Graduate Student Instructor

Psych 614: Advanced Statistical Methods II	Winter 2021
Psych 613: Advanced Statistical Methods I	Fall 2020
Psych 358: Psychology of Adolescence	Winter 2020
Psych 250: Introduction to Developmental Psychology	Winter 2019
Psych 240: Introduction to Cognitive Psychology	Fall 2018
Psych 250: Introduction to Developmental Psychology	Winter 2018

University of Michigan - Invited lecturer

Psych 358: Psychology of Adolescence, " <i>Cognitive transitions</i> "	Winter 2020
--	-------------

University of Michigan - Summer Teaching Assistant

Data, Distributions, and Decisions: The Science of Statistics	2020 - 2021
---	-------------

University of Cambridge - Tutor

Development and Psychopathology	2015 - 2016
Research Methods in Psychology	2014 - 2015

PROFESSIONAL DEVELOPMENT

***Ad hoc* reviewer**

SRCD 2021 Biennial Meeting	2020
Journal of Adolescent Health	2019 -
Journal of Psychosomatic Research	2019 -
Journal of Research on Adolescence	2019 -
APS Student Grant Competition	2018
International Journal of Psychophysiology	2018
SRCD DEVSEC: Conference on the Use of Secondary and Open Source Data in Developmental Science	2018

Certificates

The Life Course: Evolutionary and Ontogenetic Dynamics (LIFE)	2021
University of Michigan Graduate Teaching Certificate	2021
Michigan Institute for Data Science Graduate Certificate	2020

Methodological workshops

University of Michigan Training Course in fMRI	2018
ICPSR Summer Program - Applied Multilevel Modeling	2018

Teaching workshops

Designing and Facilitating Group Work in Remote Courses	2021
Inclusive Teaching in Remote Contexts	2020
Assessing Student Participation: What, How, and Why?	2019
Facilitating Classroom Discussions in the Social Sciences & Humanities	2019
Writing and Grading Multiple Choice Exams	2019

SERVICE

Area representative

Michigan Psychology Departmental associate	2021 -
Michigan STAR Scholars Research Speed Networking Event	2021
Michigan Psychology Diversity Recruitment Weekend	2020
Cambridge Social & Developmental Psychology Master's Cohort	2015 - 2016

Committee member

Michigan Psychology Executive Committee	2021 -
Michigan Psychology Graduate Student Leadership Council	2021 -
Michigan Developmental Psychology PhD Admissions	2020 - 2021
Michigan Psychology Student Academic Affairs (SAA)	2019 - 2020
Michigan Developmental Psychology Brown Bag	2018 - 2019
Michigan Association of Psychological Scholars (MAPS)	2017 - 2019
Michigan Developmental Psychology Social / Recruitment	2017 - 2018
University of Cambridge Department of Psychology lecture series	2015 - 2016

Judge

Michigan Undergraduate Research Symposium	2021 -
Michigan Undergraduate Research Opportunity Program (UROP)	2018 -

STATISTICAL AND TECHNICAL SKILLS

Software: Mplus, PROCESS, Python, SPSS, R

Statistical: Factor analysis, group iterative multiple model estimation (GIMME), hierarchical linear modelling (HLM), machine learning, meta-analysis, multilevel modelling, structural equational modelling (SEM)

AFFILIATIONS

Association for Psychological Science; Math Cognition and Learning Society; Society for Personality and Social Psychology; Society for Research in Child Development; Society for Research on Adolescence; Society for the Teaching of Psychology

SELECT MENTORSHIP EXPERIENCE

Cole Anderson (J.D. in Law at Wayne State University); Lea Benk (Master's in Psychology at UCL); Sarah Chung (upper-level writing project); Sahil Kapur (admitted to University of Toledo Medical School); Beth Oakley (PhD in Psychology at King's College London); Anna Olson (upper-level writing project); Abigail Richburg (UROP; Research Scholars; Master's in Psychology at New York University); Sara Silvonon (Master's in Psychology at King's College London); Zoe Solomon (senior thesis; Master's in Public Health at George Washington University); Zsofia Sophansay (Master's in Psychology at UCL); Madeline Swerdlow (Master's in Speech-Language Pathology at University of Maryland)

REFERENCES

Adriene M. Beltz, Ph.D.

Assistant Professor of Psychology, University of Michigan

Mentor, Dissertation Chair

abeltz@umich.edu

Pamela E. Davis-Kean, Ph.D.

Professor of Psychology, University of Michigan

Research Professor, Institute for Social Research

Associate Director, Michigan Institute for Data Science

Mentor, Dissertation Committee Member

pdakean@umich.edu

Daniel P. Keating, Ph.D.

Professor of Psychology, Psychiatry & Pediatrics, University of Michigan

Research Professor, Institute for Social Research

Collaborator

keatingd@umich.edu

Last Updated: July 1, 2021