

Philip Deming

Curriculum Vitae
9/22/2024

Northeastern University | Department of Psychology
360 Huntington Avenue | Boston, MA, USA 02115
p.deming@northeastern.edu | philipdeming.com

Academic Appointments

2021-Present Postdoctoral Fellow, Psychology, Northeastern University
Advisors: Karen S. Quigley & Lisa Feldman Barrett

Education

2017-2021 Ph.D., Psychology, University of Wisconsin-Madison
Advisor: Michael Koenigs
2015-2017 M.S., Psychology, University of Wisconsin-Madison
Advisor: Michael Koenigs
2009-2013 B.A., Psychology and German, University of Wisconsin-Madison

External Grant Support

2023-2026 National Institute of Mental Health (F32MH133288). *Probing negative affect circuits in humans using 7T fMRI* (\$220,272). Principal Investigator: Deming.

Peer-Reviewed Articles

9. Deming, P., Griffiths, S., Jalava, J., Koenigs, M., & Larsen, R.L. (In Press). Psychopathy and medial frontal cortex: A systematic review reveals predominantly null relationships. *Neuroscience & Biobehavioral Reviews*.
8. Deming, P., Cook, C.J., Meyerand, M.E., Kiehl, K.A., Kosson, D.S., & Koenigs, M. (2023). Impaired salience network switching in psychopathy. *Behavioural Brain Research*, 452, 114570.
7. Deming, P., Heilicher, M., & Koenigs, M. (2022). How reliable are amygdala findings in psychopathy? A systematic literature review of MRI studies. *Neuroscience & Biobehavioral Reviews*, 142, 104875.
6. Deming, P., Eisenbarth, H., Rodrik, O., Weaver, S.S., Kiehl, K.A., & Koenigs, M. (2022). An examination of autonomic and facial responses to prototypical facial emotion expressions in psychopathy. *PLoS ONE*, 17(7), e0270713.
5. Deming, P., Dargis, M., Haas, B.W., Brook, M., Decety, J., Harenski, C., Kiehl, K., Koenigs, M., & Kosson, D.S. (2020). Psychopathy is associated with fear-specific reductions in neural activity during affective perspective-taking. *NeuroImage*, 223, 117342.
4. Deming, P. & Koenigs, M. (2020). Functional neural correlates of psychopathy: A meta-analysis of MRI data. *Translational Psychiatry*, 10(133), 1-8.

3. **Deming, P.**, Philippi, C., Wolf, R., Dargis, M., Kiehl, K.A., & Koenigs, M. (2018). Psychopathic traits linked to alterations in neural activity during personality judgments of self and others. *NeuroImage: Clinical*, *18*, 575-581.
2. Korponay, C., Pujara, M.S., **Deming, P.**, Philippi, C., Decety, J., Kosson, D.S., Kiehl, K.A., & Koenigs, M. (2017). Impulsive-antisocial psychopathic traits linked to increased volume and functional connectivity within prefrontal cortex. *Social Cognitive and Affective Neuroscience*, *12*(7), 1169-1178.
1. Korponay, C., Pujara, M.S., **Deming, P.**, Philippi, C., Decety, J., Kosson, D.S., Kiehl, K.A., & Koenigs, M. (2016). Impulsive-antisocial dimension of psychopathy linked to enlargement and abnormal functional connectivity of the striatum. *Biological Psychiatry: Cognitive Neuroscience and Neuroimaging*, *2*, 1-9.

Book Chapters

1. **Deming, P.**, & Koenigs, M. (2021). Neuroimaging studies of psychopathy. In Dierckx, R.A., Otte, A., de Vries, E.F.J., van Waarde, A., & Sommer, I.E. (Eds) *PET and SPECT in Psychiatry* (2nd Ed.). Springer, Cham.

Preprints

1. **Deming, P.** (2023). Burning neuroscientific questions about etiological models of psychopathy. *PsyArXiv*.

Manuscripts in Preparation

4. **Deming, P.**, Katsumi, Y., Quigley, K.S., Barrett, L.F., & Theriault, J. (In Preparation). Changes in cortico-brainstem functional connectivity from resting-state to task: a 7T fMRI study of humans.
3. **Deming, P.** Khan, Z., Hoemann, K., Nielson, C., Feldman, M.J., Devlin, M., Dy, J., Runyun, Ş.L., Gao, Y., Barrett, L.F., Wormwood, J.B., & Quigley, K.S. (In Preparation). Multimodal clustering of context-aware experience sampling data reveals variation in human affective experience.
2. **Deming, P.**, Shaffer, C., Wagner, N.J., Quigley, K.S., & Barret, L.F. (In Preparation). Deconstructing psychopathy.
1. Zhang, J., Chen, D., **Deming, P.**, Srirangarajan, T., Theriault, J., Kragel, P.A., Hartley, L., Lee, K.M., McVeigh, K., Wager, T.D., Wald, L.L., Satpute, A.B., Quigley, K.S., Whitfield-Gabrieli, S., Barrett, L.F., & Bianciardi, M. (Under Review). Cortical and subcortical mapping of the allostatic-interoceptive system in the human brain using 7 Tesla fMRI. *Nature Neuroscience*.

Invited Talks

Deming, P. (2022, July). *Psychopathy and Emotion Research*. UW-Madison Badger Precollege (virtual).

Deming, P. (2020, Nov). *Functional Neural Correlates of Psychopathy*. University of Alberta Forensic Grand Rounds (virtual).

Deming, P. (2019, April). *The Neuroscience of Psychopathy*. UW-Madison Undergraduate Neuroscience Society NeuroNight, Madison, WI.

Conference Presentations

Deming, P., Griffiths, S., Jalava, J., Koenigs, M., & Larsen, R.R. (2024, May). *The relationship between psychopathy and medial frontal cortex structure and function: A systematic review reveals predominantly null findings*. Society for the Scientific Study of Psychopathy Conference, Paphos, Cyprus.

Deming, P. (2023, June). *An examination of autonomic and facial responses to prototypical facial emotion expressions in psychopathy*. 21st World Congress of Psychophysiology, Geneva, Switzerland.

Deming, P. (2022, May). *Diminished switching role of the brain's salience network in high psychopathy incarcerated men*. Society for the Scientific Study of Psychopathy Conference (virtual).

Deming, P. (2021, May). *Reduced sympathetic arousal but not reduced mimicry in response to facial expressions in psychopathic individuals with low negative affect*. Society for the Scientific Study of Psychopathy Early Career Event (virtual).

Deming, P. (2019, May). *Psychopathy is associated with fear-specific reductions in neural activity during affective perspective-taking*. Society for the Scientific Study of Psychopathy Conference, Las Vegas, NV

Posters

**denotes equal contributions*

Barton-Zuckerman, M., Marino, L., Payne, J., Gao, Y., **Deming, P.**, Barrett, L.F., Wormwood, J., & Quigley, K.S. (2024, October). Cardiovascular patterns associated with threat-challenge ratio: Replications of within-subjects analysis using Bayesian mixed modeling approach. To be presented at the Society for Psychophysiological Research Conference, Prague, Czech Republic.

Gao, Y., **Deming, P.**, Wormwood, J.B., Barrett, L.F., & Quigley, K.S. (2023, September). How does a set of cardiovascular variables explain subjective experience of valence and arousal during emotional scenario immersion? Society for Psychophysiological Research Conference, New Orleans, LA.

Deming, P., Heilicher, M., & Koenigs, M. (2022, May). *The role of the amygdala in psychopathy: A systematic review of MRI studies*. Society for the Scientific Study of Psychopathy Conference (virtual).

Deming, P., Eisenbarth, H., Rodrik, O., Weaver, S.S., & Koenigs, M. (2021, April). *Reduced sympathetic arousal but not reduced mimicry in response to facial expressions in*

psychopathic individuals with low negative affect. Wisconsin Symposium on Emotion (virtual).

Deming, P. & Koenigs, M. (2019, April). *Structural and Functional Neural Correlates of Psychopathy: A Meta-analysis of MRI Data*. Wisconsin Symposium on Emotion, Madison, WI.

Deming, P., Philippi, C.L., Wolf, R., Dargis, M., Kiehl, K.A., & Koenigs, M. (2017, May). *Psychopathic traits linked to alterations in cortical midline activity during personality judgments of self and others*. Society for the Scientific Study of Psychopathy Conference, Antwerp, Belgium.

Deming, P., Dargis, M., Kiehl, K.A., Koenigs, M., & Kosson, D.S. (2017, April). *Psychopathy is associated with fear-specific reductions in neural activity during affective perspective-taking*. Wisconsin Symposium on Emotion, Madison, WI.

***Deming, P.**, *Philippi, C.L., Gudmundson, C., Glueck, J., Wolf, R., Dargis, M., Kiehl, K.A., & Koenigs, M. (2016, April). *Parsing the Components of Psychopathic Personality Through a Neuropsychological Study of Self- versus Other-focused Cognition*. Wisconsin Symposium on Emotion, Madison, WI.

Teaching

2020-2021 Reader/Grader, University of Wisconsin-Madison, *The Criminal Mind*
2018-2019 Teaching Assistant, University of Wisconsin-Madison, *The Criminal Mind*
2017 Teaching Assistant, University of Wisconsin-Madison, *Child Psychopathology*

Ad Hoc Reviewing

Aggression and Violent Behavior
Behavioural Brain Research
Biological Psychology
Brain Structure and Function
Cerebral Cortex
Clinical Psychology Review
Experimental Results
Journal of Emotion and Psychopathology
Journal of Psychopathology and Clinical Science
Nature Mental Health
NeuroImage
Neuroscience and Biobehavioral Reviews
Neuroscience Letters
PLoS ONE
Psychological Medicine
Psychology, Crime & Law
Psychology Research and Behavior Management
Scientific Reports
Social Cognitive and Affective Neuroscience

Media Coverage

“Psychopathy linked to fear-specific reductions in brain activity when taking another’s perspective” by Eric W. Dolan, PsyPost, February 21, 2021.

<https://www.psypost.org/2021/02/psychopathy-linked-to-fear-specific-reductions-in-brain-activity-when-taking-anothers-perspective-59729>