

Philip Deming

Curriculum Vitae

1/21/2026

Northeastern University | Department of Psychology
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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

Awards and Honors

2025 Post-doctoral Fellow Award, *Cognitive Neuroscience Society*
2021 Cheryl Wynn Hare Award Finalist, *Society for the Scientific Study of Psychopathy*
2020 Teaching Fellow Award Alternate, *University of Wisconsin-Madison College of Letters & Science*
2014 Alternate, *Fulbright U.S. Student Program*
2012-2013 Dean's List, *University of Wisconsin-Madison*

Grants

2023-2026 National Institute of Mental Health (F32MH133288). *Probing negative affect circuits in humans using 7T fMRI* (\$220,272). Principal Investigator: Deming.
2020-2021 University of Wisconsin-Madison. *University Fellowship* (\$22,909).
2015-2016 University of Wisconsin-Madison. *University Fellowship* (\$19,710).

Peer-Reviewed Articles

13. 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. (2025). Cortical and subcortical mapping of the allostatic-interoceptive system in the human brain using 7 Tesla fMRI. *Nature Neuroscience*, 28, 2380-2391.

12. Theriault, J., Katsumi, Y., Reimann, H., Zhang, J., **Deming, P.**, Dickerson, B., Quigley, K.S., & Barrett, L.F. (2025). It's not the thought that counts: Allostasis at the core of brain function. *Neuron*.
11. **Deming, P.**, Griffiths, S., Jalava, J., Koenigs, M., & Larsen, R.L. (2024). Psychopathy and medial frontal cortex: A systematic review reveals predominantly null relationships. *Neuroscience & Biobehavioral Reviews*, *167*, 105904.
10. **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.
9. **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.
8. **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.
7. Silva, E., Klink, J., McKinney, E., Price, J., **Deming, P.**, Rivedal, H., & Colquhoun, J. (2020). Attitudes of dining customers towards sustainability-related food values at a public university campus. *Renewable Agriculture and Food Systems*, *35*(3), 221-226.
6. **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.
5. **Deming, P.** & Koenigs, M. (2020). Functional neural correlates of psychopathy: A meta-analysis of MRI data. *Translational Psychiatry*, *10*(133), 1-8.
4. **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.
3. 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.
2. Koundinya, V., Klink, J., **Deming, P.**, Meyers, A., & Erb, K. (2016). How do mode and timing of follow-up surveys affect evaluation success? *The Journal of Extension*, *54*(1), 18.
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

4. **Deming, P., & Shaffer, C. (2025).** Brain evidence of allostatic and interoceptive dysfunction in psychopathy. *PsyArXiv*.
3. **Deming, P., Khan, Z., Hoemann, K., Marino, L., Runyun, Ş.L., Kross, Z., Gao, Y., Cory, L., Nielson, C., Feldman, M.J., Devlin, M., Dy, J., Barrett, L.F., Wormwood, J.B., & Quigley, K.S. (2025).** Structured variation in daily life experience within and across individuals. *PsyArXiv*.
2. 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. (2025). Cortical and subcortical mapping of the allostatic-interoceptive system in the human brain using 7 Tesla fMRI. *bioRxiv*.
1. **Deming, P. (2023).** Burning neuroscientific questions about etiological models of psychopathy. *PsyArXiv*.

Manuscripts Under Review

2. **Deming, P., Khan, Z., Hoemann, K., Marino, L., Runyun, Ş.L., Kross, Z., Gao, Y., Cory, L., Nielson, C., Feldman, M.J., Devlin, M., Dy, J., Barrett, L.F., Wormwood, J.B., & Quigley, K.S. (Under Revision).** Structured variation in daily life experience within and across individuals. *Emotion*.
1. **Deming, P., & Shaffer, C. (Under Review).** Brain evidence of allostatic and interoceptive dysfunction in psychopathy. *Aggression and Violent Behavior*.

Manuscripts in Preparation

2. **Deming, P., Satpute, A.B., Quigley, K.S., Kragel, P., Bianciardi, M., Wald, L., Wager, T.D., Choi, J-K., Zhang, J., Barrett, L.F., Katsumi, Y., & Theriault, J. (In Preparation).** Person-specific changes in brainstem-cortical functional connectivity from resting-state to task: a 7T fMRI study.
1. **Deming, P., Shaffer, C., Wagner, N.J., Quigley, K.S., & Barret, L.F. (In Preparation).** Deconstructing psychopathy.

Invited Talks

Deming, P. (2025). *Using neuroscience to reconceptualize the shallow emotions of people with psychopathy.* To be presented in the University of Rochester Young Neuroscience Investigator Extramural Seminar Series, Rochester, NY.

Deming, P. (2025, May). *Brain evidence of allostatic and interoceptive dysfunction in psychopathy.* Aggression and Violent Behavior Special Issue Meeting, Málaga, Spain.

Deming, P. (2025, February). *Brain evidence of allostatic and interoceptive dysfunction in psychopathy.* EPIC Brain Lab, Massachusetts General Hospital, Boston, MA.

Deming, P. (2025, January). *Brain evidence of allostatic and interoceptive dysfunction in psychopathy*. Social, Cognitive, Affective, & Neuroscience Lab, University of Birmingham (virtual).

Deming, P. (2022, July). *Psychopathy and Emotion Research*. University of Wisconsin-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*. University of Wisconsin-Madison Undergraduate Neuroscience Society NeuroNight, Madison, WI.

Conference Presentations

Deming, P., & Dugré, J. (2026, May). *Brainstem functional connectivity is altered in relation to psychopathy in a community sample*. To be presented at the Society for the Scientific Study of Psychopathy Conference, Dallas, TX.

Deming, P., Khan, Z., Hoemann, K., Marino, L., Runyun, Ş.L., Kross, Z., Gao, Y., Cory, L., Nielson, C., Feldman, M.J., Devlin, M., Dy, J., Barrett, L.F., Wormwood, J.B., & Quigley, K.S. (2025, March). *Multimodal patterns of cardiac activity, context, and affect in real-world settings vary between and within people*. Society for Affective Science Conference, Portland, OR.

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*

Deming, P., Satpute, A.B., Quigley, K.S., Kragel, P., Bianciardi, M., Wald, L.L., Wager, T.D., Choi, J-K., Zhang, J., Barrett, L.F., Katsumi, Y., & Theriault, J. (2025, May). Person-specific changes in brainstem-cortical functional connectivity during cognitive and affective tasks: a 7T fMRI study of humans. Martinos Center 25th Anniversary Symposium, Charlestown, MA.

Deming, P., Satpute, A.B., Quigley, K.S., Kragel, P., Bianciardi, M., Wald, L.L., Wager, T.D., Choi, J-K., Zhang, J., Barrett, L.F., Katsumi, Y., & Theriault, J. (2025, April). Person-specific changes in brainstem-cortical functional connectivity during social stress: a 7T fMRI study of humans. Social and Affective Neuroscience Society Conference, Chicago, IL.

Deming, P., Satpute, A.B., Quigley, K.S., Kragel, P., Bianciardi, M., Wald, L.L., Wager, T.D., Choi, J-K., Zhang, J., Barrett, L.F., Katsumi, Y., & Theriault, J. (2025, March). Person-specific changes in brainstem-cortical functional connectivity during cognitive and affective tasks: a 7T fMRI study of humans. Cognitive Neuroscience Society Conference, Boston, MA.

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. 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

2026	Guest Lecturer, Northeastern University, <i>Graduate Ethics and Professional Development</i>
2025-2026	Guest Lecturer, Northeastern University, <i>Criminal Violence</i>
2025	Guest Lecturer, Northeastern University, <i>Psychology of Crime</i>
2020-2021	Reader/Grader, University of Wisconsin-Madison, <i>The Criminal Mind</i>
2018-2021	Guest Lecturer, University of Wisconsin-Madison, <i>The Criminal Mind</i>
2018-2019	Teaching Assistant, University of Wisconsin-Madison, <i>The Criminal Mind</i>
2017	Guest Lecturer, University of Wisconsin-Madison, <i>Child Psychopathology</i>
2017	Teaching Assistant, University of Wisconsin-Madison, <i>Child Psychopathology</i>

Service

2025-2026	Program Committee Member, <i>Society for the Scientific Study of Psychopathy Conference</i>
2025	Abstract Review Board Member, <i>Society for Affective Science</i>
2024-Present	Committee Member, <i>Northeastern University Psychologists for Inclusion and Equity</i>

Ad Hoc Reviewing

Aggression and Violent Behavior
 Behavioural Brain Research
 Biological Psychology
 Brain Structure and Function
 Cerebral Cortex
 Clinical Psychology Review
 Cognitive, Affective, & Behavioral Neuroscience
 Communications Biology
 European Journal of Neuroscience
 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

The New York Times: Mapping the sense of what's going on inside. 2025. [Link](#)

Parkinson's News Today: Patching the 'glitches in the matrix' caused by Parkinson's disease. 2025. [Link](#)

Scienmag: Mapping human allostatic-interoceptive system with 7T fMRI. 2025. [Link](#)

Bioengineer.org: Mapping human allostatic-interoceptive system with 7T fMRI. 2025. [Link](#)

EurekAlert: Research Spotlight: State-of-the-art 7 Tesla MRI reveals how the human brain anticipates and regulates the body's needs. 2025. [Link](#)

Mirage News: Cutting-edge 7 Tesla MRI uncovers brain's body control. 2025. [Link](#)

PortalEnf Comunidade de Saúde: 7 Tesla MRI revela como o cérebro humano antecipa e regula as necessidades do corpo. 2025. [Link](#)

The Medical News: Mapping the brain's body regulation and sensing system using 7 Tesla MRI. 2025. [Link](#)

Mass General Brigham: Research Spotlight: State-of-the-art 7 Tesla MRI reveals how the human brain anticipates and regulates the body's needs. 2025. [Link](#)

News Medical: Mapping the brain's body regulation and sensing system using 7 Tesla MRI. 2025. [Link](#)

Health Medicine Network: How the human brain anticipates and regulates the body's needs. 2025. [Link](#)

PsyPost: Psychopathy linked to fear-specific reductions in brain activity when taking another's perspective. 2021. [Link](#)