Philip Deming

Curriculum Vitae
11/18/2026

Harvard Medical School | Department of Psychiatry
McLean Hospital | Division of Depression and Anxiety Disorders
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Academic Appointments

2026-Present	Research Fellow, Department of Psychiatry, Harvard Medical School Advisors: Isabelle Rosso & Nathaniel Harnett
2026-Present	Postdoctoral Research Fellow, Division of Depression and Anxiety Disorders, McLean Hospital Advisors: Isabelle Rosso & Nathaniel Harnett
2021-2026	Postdoctoral Fellow, Department of 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

**denotes equal contributions*

15. **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.* (2026). Structured variation in daily life experience within and across individuals. *Emotion*.
14. **Deming, P.**, & Shaffer, C. (2026). Brain evidence of allostatic and interoceptive dysfunction in psychopathy. *Aggression and Violent Behavior, 89,* 102179.
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 in Preparation

3. **Deming, P.**, & Dugré, J. (In Preparation). Patterns of brainstem-cortical functional connectivity change with increasing severity of psychopathic traits in a community sample.
2. **Deming, P.**, Shaffer, C., & Wagner, N.J. (In Preparation). Deconstructing psychopathy.
1. **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., Theriault, J., & Katsumi, Y. (In Preparation). Person-specific changes in brainstem and cortical functional connectivity from rest to task: a 7T fMRI study.

Invited Talks

Deming, P (2026, October). *Contributions of the brain-body axis to emotional experience and psychopathy.* University of Massachusetts Amherst Social Psychology Colloquium Series, Amherst, MA.

Deming, P. (2025, December). *Using neuroscience to reconceptualize the shallow emotions of people with psychopathy*. University of Rochester Neuroscience Young 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*. 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, *Graduate Ethics and Professional Development*
2025-2026	Guest Lecturer, Northeastern University, *Criminal Violence*
2025	Guest Lecturer, Northeastern University, *Psychology of Crime*
2020-2021	Reader/Grader, University of Wisconsin-Madison, *The Criminal Mind*
2018-2021	Guest Lecturer, University of Wisconsin-Madison, *The Criminal Mind*
2018-2019	Teaching Assistant, University of Wisconsin-Madison, *The Criminal Mind*
2017	Guest Lecturer, University of Wisconsin-Madison, *Child Psychopathology*
2017	Teaching Assistant, University of Wisconsin-Madison, *Child Psychopathology*

Professional Society Membership

2026-Present	Society of Biological Psychiatry
2025-Present	Social & Affective Neuroscience Society
2025-Present	Society for Affective Science
2025-Present	Cognitive Neuroscience Society
2017-Present	Society for the Scientific Study of Psychopathy

Service

2026	Member, *Data and Safety Monitoring Board for NIMH Study K23MH139637*
2025-2026	Program Committee Member, *Society for the Scientific Study of Psychopathy Conference*
2025	Abstract Review Board Member, *Society for Affective Science*
2024-2026	Committee Member, *Northeastern University Psychologists for Inclusion and Equity*

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 | New Ideas in Psychology | PLoS ONE | Psychological Medicine | Psychology, Crime & Law | Psychology Research and Behavior Management | Scientific Reports | Social Cognitive and Affective Neuroscience | Social Neuroscience

Selected Media Coverage

PsyPost: What if psychopathic behavior stems from a surprisingly basic physical glitch? 2026. Link

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

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 Testla 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