

Jeffrey M Girard

Interdisciplinary Researcher

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Personal Statement

My research into *human behavior, personality, and psychopathology* takes a deeply interdisciplinary approach, drawing insights and tools from *social science, computer science, and data science*. In addition to serving as an interdisciplinary liaison and translator, I develop and validate computational tools for psychological inquiry.

Positions

- ♦ Postdoctoral Research Associate, Carnegie Mellon University (*Computer Science*) 2018 – 2020

Academic History

- ♦ Doctor of Philosophy, University of Pittsburgh (*Clinical Psychology*) 2013 – 2018
- ♦ Predoctoral Internship, University of Mississippi Medical Center (*Psychiatry*) 2017 – 2018
- ♦ Master of Science, University of Pittsburgh (*Clinical Psychology*) 2010 – 2013
- ♦ Bachelor of Arts, University of Washington (*Psychology and Philosophy*) 2005 – 2009

Research Funding

- ♦ Application Co-Author, National Science Foundation [IIS-1721667](#)
- ♦ Research Fellow, National Institutes of Health [R01-GM105004](#)
- ♦ Research Fellow, National Science Foundation [IIS-1418026](#)
- ♦ Research Fellow, National Institutes of Mental Health [R01-MH096951](#)
- ♦ Research Fellow, National Science Foundation [CNS-1205195](#)

Professional Honors

- ♦ Barlow Speakership Award, University of Mississippi Medical Center 2017
- ♦ Wiggins Student Award, Society for Interpersonal Theory and Research 2017
- ♦ Bassell Student Award, University of Pittsburgh (*Clinical Psychology*) 2017
- ♦ Outstanding Presenter Award, University of Pittsburgh (*Grad Expo*) 2017
- ♦ Outstanding Reviewer Award, IEEE Automated Face & Gesture Recognition 2015
- ♦ E.B. Huey Award, University of Pittsburgh (*Clinical Psychology*) 2014

Journal Articles

- ◆ Hopwood, C.J., Harrison, A.L, Amole, M., **Girard, J.M.**, Wright, A.G.C., Thomas, K.M., Sadler, P., Ansell, E.B., Chaplin, T.M., Morey, L.C., Crowley, M.J., Durbin, C.E., & Kashy, D.A. (in press). Properties of the continuous assessment of interpersonal dynamics across sex, level of familiarity, and interpersonal conflict. *Assessment*. Advance online publication. doi: [10.17605/osf.io/hqpt7](https://doi.org/10.17605/osf.io/hqpt7)
- ◆ Grove, J.L., Smith, T.W., **Girard, J.M.**, & Wright, A.G.C. (in press). Narcissistic admiration and rivalry: An interpersonal approach to construct validation. *Journal of Personality Disorders*. Advance online publication. doi: [10.17605/osf.io/erxy7](https://doi.org/10.17605/osf.io/erxy7)
- ◆ Pacella, M.L., **Girard, J.M.**, Wright, A.G.C., Suffoletto, B., & Callaway, C.W. (2018). The association between daily posttraumatic stress symptoms and pain over the first 14-days after injury: An experience sampling study. *Academic Emergency Medicine*. 25(8), 844–855.
- ◆ **Girard, J.M.**, & Wright, A.G.C. (2018). DARMA: Software for dual axis rating and media annotation. *Behavior Research Methods*. 50(3), 902–909.
- ◆ Shepherd, L.M., Sly, K.F., & **Girard, J.M.** (2017). Comparison of comprehensive and abstinence-only sexuality education in young African American adolescents. *Journal of Adolescence*. 61, 50–63.
- ◆ **Girard, J.M.**, Wright, A.G.C., Beeney, J.E., Scott, L.N., Lazarus, S.A., Stepp, S.D., & Pilkonis, P.A. (2017). Interpersonal problems across levels of the psychopathology hierarchy. *Comprehensive Psychiatry*. 79, 53–69.
- ◆ Ross, J.M., **Girard, J.M.**, Wright, A.G.C., Beeney, J.E., Scott, L.N., Hallquist, M.N., Lazarus, S.A., Stepp, S.D., & Pilkonis, P.A. (2017). Momentary patterns of covariation between specific affects and interpersonal behavior: Linking relationship science and personality assessment. *Psychological Assessment*. 29(2), 123–134.
- ◆ *McDuff, D., ***Girard, J.M.**, & el Kaliouby, R. (2017). Large-scale observational evidence of cross-cultural differences in facial behavior. *Journal of Nonverbal Behavior*. 41(1), 1–19. ***Shared first-authorship**
- ◆ **Girard, J.M.**, & Cohn, J.F. (2016). A primer on observational measurement. *Assessment*. 23(4), 404–413.
- ◆ **Girard, J.M.**, Cohn, J.F., Jeni, L.A., Sayette, M.A., & De la Torre, F. (2015). Spontaneous facial expression in unscripted social interactions can be measured automatically. *Behavior Research Methods*. 47(4), 1136–1147.
- ◆ **Girard, J.M.**, Cohn, J.F., & De la Torre, F. (2015). Estimating smile intensity: A better way. *Pattern Recognition Letters*. 66, 13–21.
- ◆ Fairbairn, C.E., Sayette, M.A., Amole, M., Dimoff, J.D., Cohn, J.F., & **Girard, J.M.** (2015). Speech volume indexes gender differences in the social-emotional effects of alcohol. *Experimental & Clinical Psychopharmacology*. 23(4), 255–264.
- ◆ **Girard, J.M.**, & Cohn, J.F. (2015). Automated audiovisual depression analysis. *Current Opinion in Psychology*, 4, 75–79.
- ◆ **Girard, J.M.** (2014). CARMA: Software for continuous affect rating and media annotation. *Journal of Open Research Software*, 2(1), e5.
- ◆ Zhang, X., Yin, L., Cohn, J.F., Canavan, S., Reale, M., Horowitz, A., Liu, P., & **Girard, J.M.** (2014). BP4D-Spontaneous: A high-resolution spontaneous 3D dynamic facial expression database. *Image and Vision Computing*, 32(10), 692–706.

- ◆ **Girard, J.M.**, Cohn, J.F., Mahoor, M.H., Mavadati, S.M., Hammal, Z., & Rosenwald, D.P. (2014). Nonverbal social withdrawal in depression: Evidence from manual and automatic analyses. *Image and Vision Computing*, 32(10), 641–647.

Chapters and Book Sections

- ◆ Cohn, J.F., Onal, I., Chu, W.S., **Girard, J.M.**, Jeni, L.A., & Hammal, Z. (2019). Affective facial computing: Generalizability across domains. In X. Alameda-Pineda, E. Ricci & N. Sebe (Eds.) *Multi-modal behavioral analysis in the wild: Advances and challenges*. San Diego, CA: Academic Press.
- ◆ **Girard, J.M.** & Cohn, J.F. (in press). Automated analysis of depressed behavior. In P. Ekman & E. Rosenberg (Eds.), *What the face reveals: Basic and applied studies of spontaneous expression using the facial action coding system (FACS)* (3rd ed.). New York, NY: Oxford University Press.
- ◆ **Girard, J.M.** & Cohn, J.F. (in press). Generalizability of automated AU detection. In P. Ekman & E. Rosenberg (Eds.), *What the face reveals: Basic and applied studies of spontaneous expression using the facial action coding system (FACS)* (3rd ed.). New York, NY: Oxford University Press.

Conference Proceedings

NB: *In the field of computer science, original research papers about completed studies are submitted to conferences. Submissions go through a full peer-review process and the accepted papers are published as conference proceedings.*

- ◆ Valstar, M., Sanchez-Lozano, E., Cohn, J.F., Jeni, L.A., **Girard, J.M.**, Zhang, Z., Yin, L., & Pantic, M. (2017). FERA 2017 - Addressing head pose in the third facial expression recognition and analysis challenge. *Proceedings of the IEEE Conference on Automatic Face & Gesture Recognition* (pp. 839–847).
- ◆ **Girard, J.M.** & McDuff, D. (2017). Historical heterogeneity predicts smiling: Evidence from large-scale observational analyses. *Proceedings of the IEEE Conference on Automatic Face & Gesture Recognition* (pp. 719–726).
- ◆ **Girard, J.M.**, Chu, W.S., Jeni, L.A., Cohn, J.F., De la Torre, F., & Sayette, M.A. (2017). Sayette group formation task (GFT) spontaneous facial expression database. *Proceedings of the IEEE Conference on Automatic Face & Gesture Recognition* (pp. 581–588).
- ◆ Zhang, Z., **Girard, J.M.**, Wu, Y., Zhang, X., Liu, P., Ciftci, U., Canavan, S., Reale, M., Horowitz, A., Yang, H., Cohn, J.F., Ji, Q., & Yin, L. (2016). Multimodal spontaneous emotion corpus for human behavior analysis. *Proceedings of the IEEE Conference on Computer Vision and Pattern Recognition* (pp. 3438–3446).
- ◆ Valstar, M.F., Almaev, T., **Girard, J.M.**, McKeown, G., Mehu, M., Yin, L., Pantic, M., & Cohn, J.F. (2015). FERA 2015 - Second Facial Expression Recognition and Analysis Challenge. *Proceedings of the IEEE Conference on Automatic Face & Gesture Recognition* (pp. 1–8).
- ◆ **Girard, J.M.**, Cohn, J.F., Jeni, L.A., Lucey, S., & De la Torre, F. (2015). How much training data for facial action unit detection? *Proceedings of the IEEE Conference on Automatic Face & Gesture Recognition* (pp. 1–8).
- ◆ **Girard, J.M.**, Cohn, J.F., Mahoor, M.H., Mavadati, S.M., & Rosenwald, D.P. (2013). Social risk and depression: Evidence from manual and automatic facial expression analysis. *Proceedings of the IEEE Conference on Automatic Face & Gesture Recognition* (pp. 1–8).

- ♦ Jeni, L.A., **Girard, J.M.**, Cohn, J.F., & De la Torre, F. (2013). Continuous AU intensity estimation using localized, sparse facial feature space. *Proceedings of the IEEE Conference on Automatic Face & Gesture Recognition* (pp. 1–7).
- ♦ **Girard, J.M.**, & Cohn, J.F. (2011). Criteria and metrics for thresholded AU detection. *Proceedings of the IEEE Conference on Computer Vision* (pp. 2191–2197).

Invited Presentations

- ♦ **Girard, J.M.** (2017, April). *Interdisciplinary exchange in affective computing: Case studies in automated face analysis*. Invited presentation at the meeting of the Society for Affective Science (PCAC), Boston, MA.
- ♦ **Girard, J.M.** (2017, April). *Frontiers where psychology meets affective computing*. Invited presentation at MIT Media Lab, Cambridge, MA.
- ♦ **Girard, J.M.** (2017, January). *Leveraging technology to study and assess depression*. Invited presentation at Microsoft Research, Redmond, WA.
- ♦ **Girard, J.M.** (2016, September). *Leveraging technology for psychological science*. Invited presentation at the meeting of the Psi Chi Honor Society (University of Pittsburgh Chapter), Pittsburgh, PA.

Workshops and Tutorials

NB: *Workshops and tutorials are extended educational presentations at psychology and computer science conferences.*

- ♦ **Girard, J.M.**, Zimmermann, J., & Wright, A.G.C. (2018, June). *New tools for circumplex data analysis and visualization in R*. Workshop presented at the meeting of the Society for Interpersonal Theory and Research, Montréal, Canada.
- ♦ **Girard, J.M.** & Cohn, J.F. (2018, May). *Statistical methods for affective computing*. Tutorial presented at the IEEE Conference on Automatic Face & Gesture Recognition, Xi'an, China.
- ♦ **Girard, J.M.** & Cohn, J.F. (2017, May). *Statistical methods for affective computing*. Tutorial presented at the IEEE Conference on Automatic Face & Gesture Recognition, Washington, DC.
- ♦ De la Torre, F., **Girard, J.M.**, & Cohn, J.F. (2015, September). *Facial expression analysis*. Tutorial presented at the IEEE Conference on Biometrics: Theory, Applications, and Systems, Arlington, VA.

Clinical Experience

- ♦ Internship, Psychiatry and Human Behavior, University of Mississippi Medical Center 2017 – 2018
Rotations: Adult Inpatient Unit, Neuropsychology, Community-based Dual Disorders
- ♦ Externship, Personality Processes and Outcomes Lab, University of Pittsburgh 2016 – 2017
- ♦ Externship, Services for Teens at Risk Clinic, Western Psychiatric Institute and Clinic 2014 – 2015
- ♦ Practicum, Clinical Psychology Center, University of Pittsburgh 2011 – 2017

Teaching Experience

- ◆ Co-founder/Lecturer, Statistics Practicum, University of Pittsburgh 2016 – 2017
- ◆ Instructor/Designer, Learning & Motivation, University of Pittsburgh 2016
- ◆ Teaching Assistant, Abnormal Psychology, University of Pittsburgh 2010, 2016
- ◆ Teaching Assistant, Learning & Motivation, University of Pittsburgh 2011
- ◆ Teaching Assistant, Psychology of Personality, University of Pittsburgh 2010

Service Activities

Professional Leadership

- ◆ Executive Committee, Association for the Advancement of Affective Computing 2018 – 2024
- ◆ Executive Board, Association for Psychological Science – Student Caucus 2017 – 2018
- ◆ Co-founder, Community for Advanced Methodological Learning, University of Pittsburgh 2016 – 2017
- ◆ Graduate Student Representative, Clinical Psychology, University of Pittsburgh 2012 – 2013

Conference Organization

- ◆ Demo Chair, Affective Computing and Intelligent Interaction 2018
- ◆ Program Committee, Automated Face & Gesture Recognition 2018
- ◆ Program Committee, Affective Computing and Intelligent Interaction 2015 – 2018
- ◆ Web Chair, Society for Interpersonal Theory and Research 2017 – 2018
- ◆ Symposium Co-Chair, Association for Psychological Science 2014

Ad hoc Journal Reviewing

- ◆ Psychology: Assessment (ASM), Journal of Abnormal Psychology (ABN), Journal of Personality Assessment (JPA), Journal of Research in Personality (JRP), Personality and Mental Health (PMH), PLOS ONE (P1), Psychological Assessment (PAS), Psychological Science (PS), Quality & Quantity (QAQ)
- ◆ Computer Science: IEEE Transactions on Affective Computing (TAC), Image and Vision Computing (IVC), Journal of Open Research Software (JORS), Pattern Recognition (PR)

Academic References

- ◆ Jeffrey F. Cohn, PhD, Professor of Psychology and Psychiatry, University of Pittsburgh
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