

# Jeffrey M. Girard

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Keywords: *affective computing, psychopathology, personality, quantitative methods, observational methods*

## Academic History

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- 2013 – 2018      **PhD, Clinical Psychology, University of Pittsburgh**  
Thesis: *Contextual influences on depressed interpersonal behavior*  
Committee: J.F. Cohn, A.G.C. Wright, J.S. Silk, P.A. Pilkonis, S.D. Stepp  
Internship: *University of Mississippi Medical Center (Adult Track)*
- 2010 – 2013      **MS, Clinical Psychology, University of Pittsburgh**  
Thesis: *Automatic detection and intensity estimation of spontaneous smiles*  
Committee: J.F. Cohn, M.A. Sayette, F. De la Torre, K.A. Roecklein
- 2005 – 2009      **BA, Psychology and Philosophy, University of Washington**  
Honors Thesis: *The pleasures of painful art (Chair: R.M. Moore)*

## Research Experience

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- 2014 – 2017      Personality Processes and Outcomes Lab, University of Pittsburgh  
2010 – 2017      Affect Analysis Group, University of Pittsburgh  
2009 – 2009      Relationship Research Institute, Seattle, WA  
2006 – 2007      Implicit Associations Lab, University of Washington

## Clinical Experience

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- 2017 – 2018      Clinical Psychology Internship, University of Mississippi Medical Center  
2016 – 2017      Personality Processes and Outcomes Lab, University of Pittsburgh  
2014 – 2015      Services for Teens at Risk (STAR) Clinic, Western Psychiatric Institute and Clinic  
2011 – 2017      Clinical Psychology Center, University of Pittsburgh

## Teaching Experience

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- 2017, Spring      Co-founder/Lecturer, Statistics Practicum, University of Pittsburgh  
2017, Spring      Teaching Assistant, Abnormal Psychology, University of Pittsburgh  
2016, Fall      Co-founder/Lecturer, Statistics Practicum, University of Pittsburgh  
2016, Spring      Teaching Fellow, Learning & Motivation, University of Pittsburgh  
2011, Fall      Teaching Assistant, Learning & Motivation, University of Pittsburgh  
2011, Summer      Teaching Assistant, Learning & Motivation, University of Pittsburgh  
2011, Spring      Teaching Assistant, Learning & Motivation, University of Pittsburgh  
2010, Fall      Teaching Assistant, Abnormal Psychology, University of Pittsburgh  
2010, Fall      Teaching Assistant, Psychology of Personality, University of Pittsburgh

## Published Journal Articles

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- **Girard, J.M.**, Wright, A.G.C., Beeney, J.E., Scott, L.N., Lazarus, S.A., Stepp, S.D., & Pilkonis, P.A. (in press). Interpersonal problems across levels of the psychopathology hierarchy. *Comprehensive Psychiatry*. doi: [10.1016/j.comppsy.2017.06.014](https://doi.org/10.1016/j.comppsy.2017.06.014)
- **Girard, J.M.**, & Wright, A.G.C. (in press). DARMA: Software for dual axis rating and media annotation. *Behavior Research Methods*. doi: [10.3758/s13428-017-0915-5](https://doi.org/10.3758/s13428-017-0915-5)
- 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. doi: [10.1037/pas0000338](https://doi.org/10.1037/pas0000338)
- 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. doi: [10.1007/s10919-016-0244-x](https://doi.org/10.1007/s10919-016-0244-x)
- **Girard, J.M.**, & Cohn, J.F. (2016). A primer on observational measurement. *Assessment*. 23(4), 404–413. doi: [10.1177/1073191116635807](https://doi.org/10.1177/1073191116635807)
- **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. doi: [10.3758/s13428-014-0536-1](https://doi.org/10.3758/s13428-014-0536-1)
- **Girard, J.M.**, Cohn, J.F., & De la Torre, F. (2015). Estimating smile intensity: A better way. *Pattern Recognition Letters*. 66, 13–21. doi: [10.1016/j.patrec.2014.10.004](https://doi.org/10.1016/j.patrec.2014.10.004)
- 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. doi: [10.1037/pha0000021](https://doi.org/10.1037/pha0000021)
- **Girard, J.M.**, & Cohn, J.F. (2015). Automated audiovisual depression analysis. *Current Opinion in Psychology*, 4, 75–79. doi: [10.1016/j.copsyc.2014.12.010](https://doi.org/10.1016/j.copsyc.2014.12.010)
- **Girard, J.M.** (2014). CARMA: Software for continuous affect rating and media annotation. *Journal of Open Research Software*, 2(1), e5. doi: [10.5334/jors.ar](https://doi.org/10.5334/jors.ar)
- 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. doi: [10.1016/j.imavis.2014.06.002](https://doi.org/10.1016/j.imavis.2014.06.002)
- **Girard, J.M.**, Cohn, J.F., Mahoor, M.H., Mavadati, S.M., Hammal, Z., & Rosenwald, D.P. (2014). Non-verbal social withdrawal in depression: Evidence from manual and automatic analyses. *Image and Vision Computing*, 32(10), 641–647. doi: [10.1016/j.imavis.2013.12.007](https://doi.org/10.1016/j.imavis.2013.12.007)

## Books and Book Sections

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- **Girard, J.M.**, Cohn, J.F., Mahoor, M.H., Mavadati, S.M., Hammal, Z., & Rosenwald, D.P. (in press). Non-verbal social withdrawal in depression: Evidence from manual and automatic analyses. 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). Automated analysis of depressed behavior [Afterword]. 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., Jeni, L.A., Sayette, M.A., & De la Torre, F. (in press). Spontaneous facial expression in unscripted social interactions can be measured automatically. 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 [Afterword]. 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.

## Published Conference Papers

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- 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). doi: [10.1109/FG.2017.107](https://doi.org/10.1109/FG.2017.107)
- **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). doi: [10.1109/FG.2017.135](https://doi.org/10.1109/FG.2017.135)
- **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). doi: [10.1109/FG.2017.144](https://doi.org/10.1109/FG.2017.144)
- 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). doi: [10.1109/CVPR.2016.374](https://doi.org/10.1109/CVPR.2016.374)
- 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). doi: [10.1109/FG.2015.7284874](https://doi.org/10.1109/FG.2015.7284874)
- **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). doi: [10.1109/FG.2015.7163106](https://doi.org/10.1109/FG.2015.7163106)
- **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). doi: [10.1109/FG.2013.6553748](https://doi.org/10.1109/FG.2013.6553748)
- 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). doi: [10.1109/FG.2013.6553808](https://doi.org/10.1109/FG.2013.6553808)
- **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). doi: [10.1109/ICCVW.2011.6130519](https://doi.org/10.1109/ICCVW.2011.6130519)

## Conference Abstracts

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- Wulf, T.M., **Girard, J.M.**, Bruni, P., Cohn, J.F., & Benight, C. (2017). *Nonverbal indicators of acute distress in women with PTSD*. Poster presented at the meeting of the International Society for Traumatic Stress Studies, Chicago, IL.
- **Girard, J.M.**, Amole, M.C., Cyranowski, J.M., Swartz, H.A., Cohn, J.F., & Wright, A.G.C. (2017). *Associations between spontaneous head pose and the dimensions of interpersonal behavior*. Presentation at the meeting of the Society for Interpersonal Theory and Research, Pittsburgh, PA.

- 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*. Presentation at the meeting of the Society for Interpersonal Theory and Research, Pittsburgh, PA.
- **Girard, J.M.**, Wright, A.G.C., Beeney, J.E., Lazarus, S.A., Scott, L.N., Stepp, S.D., & Pilkonis, P.A. (2017). *Interpersonal problems across levels of the psychopathology hierarchy*. Poster presented at the meeting of the Society for Interpersonal Theory and Research, Pittsburgh, PA.
- Grove, J., Smith, T., Girard, J.M., & Wright, A.G.C. (2017). *Narcissistic admiration and rivalry: An interpersonal approach to construct validation*. Poster presented at the meeting of the Society for Interpersonal Theory and Research, Pittsburgh, PA.
- Amole, M.C., **Girard, J.M.**, Smith, E., Cyranowski, J.M., Swartz, H.A., & Wright, A.G.C. (2017). *Interpersonal behaviors during mother-child discussions*. Poster presented at the meeting of the Society for Interpersonal Theory and Research, Pittsburgh, PA.
- McDuff, D., & **Girard, J.M.** (2017). *Large-scale observational evidence of cross-cultural differences in facial behavior*. Presentation at the Pre-conference on Affective Computing at the meeting of the Society for Affective Science, Boston, MA.
- **Girard, J.M.**, Wright, A.G.C., Beeney, J.E., Lazarus, S.A., Scott, L.N., Stepp, S.D., & Pilkonis, P.A. (2017). *Interpersonal problems across levels of the psychopathology hierarchy*. Poster presented at the meeting of the Association for Psychological Science, Boston, MA.
- **Girard, J.M.**, Wright, A.G.C., Stepp, S.D., & Pilkonis, P.A. (2017). Momentary assessment of depressed interpersonal behavior during romantic conflict. In K.M. Thomas (Chair), *Real-time assessment of interpersonal and affective relationship dynamics*. Symposium conducted at the meeting of the Midwestern Psychological Association, Chicago, IL.
- Amole, M.C., Herman, L., Cyranowski, J.M., **Girard, J.M.**, Wright, A.G.C., & Swartz, H.A. (2017). Interpersonal behaviors in depressed mothers and their children: Impacts of maternal childhood emotional abuse. In J.M. Cyranowski (Chair), *History of Childhood Emotional Abuse among Depressed Mothers: Impacts and IPT Treatment Implications*. Symposium conducted at the meeting of the International Society of Interpersonal Psychotherapy, Toronto, Canada.
- Pacella, M.L., Suffoletto, B.P., **Girard, J.M.**, Wright, A.G.C., Kurtz, R., & Callaway, C.W. (2017). *The association between daily posttraumatic stress symptoms and physical pain over the first 14-days after injury: An experience sampling study*. Presentation at the meeting of the Society for Academic Emergency Medicine, Miami, FL.
- **Girard, J.M.**, Wright, A.G.C., Stepp, S.D., & Pilkonis, P.A. (2016). Interpersonal dynamics in couples with personality pathology. In M.N. Shiota (Chair), *Synchrony, Symmetry, and Integration: Dynamical Approaches to Social Interaction*. Symposium conducted at the meeting of the Association for Psychological Science, Chicago, IL.
- Wright, A.G.C., Ross, J.M., **Girard, J.M.**, Scott, L.M., Beeney, L.N., Hallquist, J.E., Stepp, S.D., & Pilkonis, P.A. (2015). Personality pathology and momentary interpersonal behavior during conflict resolution. In Wright, A.G.C. (Chair), *Interpersonal processes in personality disorders*. Symposium conducted at the meeting of the Society for Research in Psychopathology, New Orleans, LA.
- **Girard, J.M.** (2015). *Automated multimodal analysis of depression symptom severity*. Presentation at the AAAC Conference on Affective Computing and Intelligent Interaction, Xi'an, China.
- **Girard, J.M.** (2015). *The interpersonal circumplex as an integrative framework for the study of depressed interpersonal behavior*. Poster presented at the meeting of the Society for Interpersonal Theory and Research, Toronto, Canada.

- **Girard, J.M.** (2014). *Perceptions of interpersonal behavior are influenced by gender, facial expression intensity, and head pose*. Presentation at the ACM Conference on Multimodal Interaction, Istanbul, Turkey.
- **Girard, J.M., & Cohn, J.F.** (2014). Nonverbal social withdrawal in depression. In Girard, J.M. & Cohn, J.F. (Chairs), *Affective Computing for the Assessment of Depression*. Symposium conducted at the Association for Psychological Science Convention, San Francisco, CA.
- **Girard, J.M., & Mullins, P.** (2007). *Effect of sexual history and situational factors on automatic sexual perceptions*. Poster presented at the U. W. Undergraduate Research Symposium, Seattle, WA.

## Tutorials and Demos

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- **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.
- **Girard, J.M.** (2017, May). *Open-source software for continuous measurement and media annotation*. Demo presented at the IEEE Conferences 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.
- Jeni, L.A., **Girard, J.M., Cohn, J.F., & Kanade, T.** (2015, May). *Real-time dense 3D face alignment from 2D video with automatic facial action unit coding*. Demo presented at the IEEE Conference on Automatic Face & Gesture Recognition, Ljubljana, Slovenia.

## Open-Source Software

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- mReliability: Inter-Rater Reliability in MATLAB (2015–2017). url: <http://mreliability.jmgirard.com/>
- DARMA: Dual Axis Rating and Media Annotation (2014–2017). url: <http://darma.jmgirard.com/>
- CARMA: Continuous Affect Rating and Media Annotation (2014–2017). url: <http://carma.jmgirard.com/>

## Professional Affiliations

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*American Psychological Association (APA), Association for the Advancement of Affective Computing (AAAC), Association for Psychological Science (APS), Institute of Electrical and Electronics Engineers (IEEE), Society for Interpersonal Theory and Research (SITAR), Society for a Science of Clinical Psychology (SSCP)*

## Service Activities

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### Professional Leadership

Communications and Marketing Officer, APS Student Caucus, 2017–2018

### Conference Organization

Program Committee, Automatic Face and Gesture Recognition (FG 2018), Xi'an, China  
 Program Committee, Affective Computing and Intelligent Interaction (ACII 2017), San Antonio, TX  
 Web Chair, Society for Interpersonal Theory and Research (SITAR 2017), Pittsburgh, PA  
 Program Committee, Deep Affective Learning and Context Modeling (DALCOM 2017), Honolulu, HI  
 Program Committee, Affective Computing and Intelligent Interaction (ACII 2015), Xi'an, China  
 Symposium Co-Chair, Association for Psychological Science (APS 2014), San Francisco, CA

## Ad hoc Journal Reviewing

*Assessment, Computer Vision and Image Understanding, IEEE Transactions on Affective Computing, IET Computer Vision, International Journal of Methods in Psychiatric Research, Journal of Abnormal Psychology, Journal of Open Research Software, Journal of Personality Assessment, Journal of Research in Personality, Self and Identity, Pattern Recognition, Personality and Mental Health, PLOS ONE, Psychological Assessment, Psychological Science*

## Professional Honors

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- 2017 Jerry S. Wiggins Student Award, Society for Interpersonal Theory and Research
- 2017 Jennie and Max Bassell Student Award, University of Pittsburgh
- 2017 Jennie and Max Bassell Publication Award, University of Pittsburgh
- 2017 Outstanding Presenter Award, Grad Expo, University of Pittsburgh
- 2016 Jennie and Max Bassell Publication Award, University of Pittsburgh
- 2015 Jennie and Max Bassell Publication Award, University of Pittsburgh
- 2015 Outstanding Reviewer Award, Automatic Face & Gesture Recognition
- 2014 E.B. Huey Research Grant Award, University of Pittsburgh
- 2013 Jennie and Max Bassell Publication Award, University of Pittsburgh

## Specialized Training

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### Quantitative Methods

- 2017 Resampling Methods, Independent Study
- 2016 Statistical Reform and NHST Alternatives, Independent Study
- 2016 Time-Series Analysis, Course, University of Pittsburgh
- 2016 Longitudinal Data Analysis, Course, University of Pittsburgh
- 2015 Generalizability Theory, Independent Study
- 2015 Inter-Rater Reliability, Independent Study
- 2015 Missing Data Analysis, Independent Study
- 2015 Meta-Analysis and Meta-Regression, Seminar, Statistical Horizons
- 2015 Structural Equation Modeling, Course, University of Pittsburgh
- 2014 Hierarchical Linear Modeling, Course, University of Pittsburgh
- 2013 Machine Learning, Online Course, Stanford University
- 2011 General Linear Modeling, Course, University of Pittsburgh
- 2010 Analysis of Variance, Course, University of Pittsburgh

### Observational Methods

- 2014 Continuous Assessment of Interpersonal Dynamics (CAID), University of Pittsburgh
- 2010 Facial Action Coding System (FACS), University of Pittsburgh
- 2009 Facial Action Coding System (FACS), Relationship Research Institute
- 2009 Specific Affect Coding System (SPAFF), Relationship Research Institute