

# Jeffrey M Girard

1.412.499.2916 ♦ jmgirard@cmu.edu ♦ www.jmgirard.com

## Academic History

---

- ◆ Postdoctoral Research Associate, Carnegie Mellon University 2018 – 2020
- ◆ Predoctoral Clinical Internship, University of Mississippi Medical Center 2017 – 2018
- ◆ Doctor of Philosophy, University of Pittsburgh (*Clinical Psychology*) 2013 – 2018
- ◆ Master of Science, University of Pittsburgh (*Clinical Psychology*) 2010 – 2013
- ◆ Bachelor of Arts, University of Washington (*Psychology and Philosophy*) 2005 – 2009

## 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

## Research Support

---

- ◆ University of Pittsburgh Medical Center 2018 – 2021  
*Automated Multimodal Screening for Depression*  
Role: Co-Investigator, Application Co-Author  

This project involves developing and validating computational methods that screen for depression using automatic measures of nonverbal behavior relevant to affective and psychomotor functioning. It also involves collecting clinical and behavioral data from a large sample of medical outpatients.
- ◆ National Science Foundation, Division of Information & Intelligent Systems 2017 – 2021  
*Dyadic Behavior Informatics for Psychotherapy Process and Outcome* Award #1721667  
Role: Postdoctoral Research Associate, Application Co-Author  

This project involves automatically analyzing the nonverbal behavior of patients with depression and their therapists over the course of eight weeks of treatment in order to identify behavioral indicators of therapeutic process and outcome (e.g., quality of the working alliance and symptom reduction).

## Journal Articles

---

1. 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
2. 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
3. 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.
4. **Girard, J.M.** & Wright, A.G.C. (2018). DARMA: Software for dual axis rating and media annotation. *Behavior Research Methods*. 50(3), 902–909.
5. 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.
6. **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.
7. 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.
8. 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.
9. **Girard, J.M.** & Cohn, J.F. (2016). A primer on observational measurement. *Assessment*. 23(4), 404–413.
10. **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.
11. **Girard, J.M.**, Cohn, J.F., & De la Torre, F. (2015). Estimating smile intensity: A better way. *Pattern Recognition Letters*. 66, 13–21.
12. 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.
13. **Girard, J.M.** & Cohn, J.F. (2015). Automated audiovisual depression analysis. *Current Opinion in Psychology*, 4, 75–79.
14. **Girard, J.M.** (2014). CARMA: Software for continuous affect rating and media annotation. *Journal of Open Research Software*, 2(1), e5.

15. 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.
16. **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.

## Proceedings

---

NB: *In 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 proceedings.*

1. Ma, K., Wang, X., Yang, X., Zhang, M., **Girard, J.M.**, Morency, L.P. (2019). ElderReact: A multimodal dataset for recognizing emotional response in aging adults. *Proceedings of the ACM International Conference on Multimodal Interaction*.
2. **Girard, J.M.**, Shandar, G., Liu, Z., Cohn, J.F., Yin, L., & Morency, L.P. (2019). Reconsidering the Duchenne smile: Indicator of positive emotion or artifact of smile intensity? *Proceedings of the AAAC International Conference on Affective Computing and Intelligent Interaction*.
3. McDuff, D. & **Girard, J.M.** (2019). Democratizing psychological insights from analysis of nonverbal behavior. *Proceedings of the AAAC International Conference on Affective Computing and Intelligent Interaction*.
4. Valstar, M., Sanchez-Lozano, E., Cohn, J.F., Jeni, L.A., **Girard, J.M.**, Zhang, Z., Yin, L., & Pantic, M. (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).
5. **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).
6. **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).
7. 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).
8. 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).
9. **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).

10. **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).
11. 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).
12. **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).

## Book Sections

---

1. 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.
2. **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.
3. **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.

## Training Workshops

---

1. **Girard, J.M.** (2019, July). *R for Social Scientists: A practical and hands-on introduction*. Two-day workshop course presented as part of the Pittsburgh Summer Methodology Series, Pittsburgh, PA.
2. **Girard, J.M.** (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.
3. **Girard, J.M.** (2018, May). *Statistical methods for affective computing*. Half-day workshop presented at the IEEE Conference on Automatic Face & Gesture Recognition, Xi'an, China.
4. **Girard, J.M.** (2017, May). *Statistical methods for affective computing*. Half-day workshop presented at the IEEE Conference on Automatic Face & Gesture Recognition, Washington, DC.
5. De la Torre, F. & **Girard, J.M.**, (2015, September). *Facial expression analysis*. Half-day workshop presented at the IEEE Conference on Biometrics: Theory, Applications, and Systems, Arlington, VA.

## Invited Presentations

---

1. **Girard, J.M.** (2019, October). *Harnessing natural language for prediction and prevention*. Moderator and speaker at McLean Hospital's Technology in Psychiatry Summit, Boston, MA.
2. **Girard, J.M.** (2017, April). *Interdisciplinary exchange in affective computing*. Invited presentation at the Society for Affective Science's Preconference on Affective Computing, Boston, MA.

3. **Girard, J.M.** (2017, April). *Frontiers where psychology meets affective computing*. Invited presentation at MIT Media Lab, Cambridge, MA.
4. **Girard, J.M.** (2017, January). *Leveraging technology to study and assess depression*. Invited presentation at Microsoft Research, Redmond, WA.
5. **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.

## Conference Talks

---

1. **Girard, J.M.**, Zimmermann, J., & Wright, A.G.C. (2018). *New tools for circumplex data analysis and visualization in R*. Paper presented at the meeting of the Society for Interpersonal Theory and Research, Montreal, CA.
2. **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*. Paper presented at the meeting of the Society for Interpersonal Theory and Research, Pittsburgh, PA.
3. 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*. Paper presented at the meeting of the Society for Interpersonal Theory and Research, Pittsburgh, PA.
4. 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.
5. 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*. Paper presented at the meeting of the Society for Academic Emergency Medicine, Orlando, FL.
6. McDuff, D. & **Girard, J.M.** (2017). *Large-scale observational evidence of cross-cultural differences in facial behavior*. Paper presented at the Preconference on Affective Computing at the meeting of the Society for Affective Science, Boston, MA.
7. **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.
8. **Girard, J.M.** (2017). *Large-scale observational evidence of cross-cultural differences in facial behavior*. Paper presented at the University of Pittsburgh Grad Expo, Pittsburgh, PA.
9. **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.

10. 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.
11. **Girard, J.M.** (2015). *Automated multimodal analysis of depression symptom severity*. Paper presented at the AAAC Conference on Affective Computing and Intelligent Interaction, Xi'an, China.
12. **Girard, J.M.** (2014). *Perceptions of interpersonal behavior are influenced by gender, facial expression intensity, and head pose*. Paper presented at the ACM International Conference on Multimodal Interaction, Istanbul, Turkey.
13. **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.

## Conference Posters

---

1. Gerber, A.H., Scott, S.B., Finsass, M., **Girard, J.M.**, & Lerner, M.D. (2018). *Mapping patterns and correlates of in-vivo social interactions of adults with and without ASD via ecological momentary assessment*. Poster presented at the meeting of the International Society for Autism Research, Rotterdam, Netherlands.
2. **Girard, J.M.**, Fosco, W.D., Sarver, D.E., Gowey, M.A., & Lim, C.S. (2018). *Associations between disordered eating and attention problems in youth with obesity*. Poster presented at the meeting of the Society of Pediatric Psychology, Orlando, FL.
3. 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.
4. Lim, C.S., **Girard, J.M.**, Shepherd, L., Sandridge, S., Herring, W., & Lanciers, S. (2017). *Associations between depressive symptoms and disordered eating in youth who are obese*. Poster presented at ObesityWeek, Washington, DC.
5. **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.
6. 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.
7. 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.
8. **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.

9. **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.
10. **Girard, J.M.** & Mullins, P. (2007). *Effect of sexual history and situational factors on automatic sexual perceptions*. Poster presented at the UW Undergraduate Research Symposium, Seattle, WA.

## Open-Source Software

---

- ◆ agreement (2019) An R package for inter-rater agreement. <https://github.com/jmgirard/agreement>
- ◆ mlboot (2019) Machine learning performance estimation. <https://github.com/jmgirard/mlboot>
- ◆ circumplex (2018) An R package for circumplex data analysis. <https://circumplex.jmgirard.com>
- ◆ DARMA (2016) Dual axis rating and media annotation. <https://darma.jmgirard.com>
- ◆ mReliability (2015) Reliability analysis in MATLAB. <https://mreliability.jmgirard.com>
- ◆ CARMA (2014) Continuous affect rating and media annotation. <https://carma.jmgirard.com>

## Teaching Experience

---

- ◆ Co-Instructor, Multimodal Affective Computing, Carnegie Mellon University 2019
- ◆ Lecturer, Statistics Practicum, University of Pittsburgh 2016, 2017
- ◆ Instructor, Learning and Motivation, University of Pittsburgh 2016
- ◆ Teaching Assistant, Learning and Motivation, University of Pittsburgh 2011, 2012
- ◆ Teaching Assistant, Abnormal Psychology, University of Pittsburgh 2010, 2016
- ◆ Teaching Assistant, Psychology of Personality, University of Pittsburgh 2010

## 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  
*Emphases: Personality Disorder Assessment, Psychodiagnostic Assessment*
- ◆ Externship, Services for Teens at Risk Clinic, Western Psychiatric Institute and Clinic 2014 – 2015  
*Emphases: Suicide, Risk Assessment, Psychodiagnostic Assessment, DBT*
- ◆ Practicum, Clinical Psychology Center, University of Pittsburgh 2011 – 2017  
*Emphases: Depression, Anxiety, CBT, IPT, Group Therapy, Couples Therapy*

## Professional Memberships

---

- ◆ Society for the Improvement of Psychological Science (SIPS) Since 2019
- ◆ Society for Affective Science (SAS) Since 2017
- ◆ Society for Interpersonal Theory and Research (SITAR) Since 2015
- ◆ Association for Psychological Science (APS) Since 2014
- ◆ Association for the Advancement of Affective Computing (AAAC) Since 2011
- ◆ Institute of Electrical and Electronics Engineers (IEEE) Since 2011

## Professional Leadership

---

- ◆ Website Committee Member, SAS 2019 – 2022
- ◆ Member-at-Large, SITAR 2019 – 2020
- ◆ Executive Committee ECR Member, AAAC 2018 – 2024
- ◆ Web Chair, SITAR 2017 – 2022
- ◆ Student Caucus Executive Board Member, APS 2017 – 2018

## Journal Reviewing

---

- ◆ *Social/Medical Sciences*: Assessment, eLife, Journal of Abnormal Psychology, Journal of Personality Assessment, Journal of Research in Personality, PeerJ, Personality and Mental Health, Personality Disorders, PLOS ONE, Psychological Assessment, Psychological Science, Quality & Quantity
- ◆ *Computer Sciences*: Computers in Human Behavior, IEEE Access, IEEE Transactions on Affective Computing, Image and Vision Computing, Journal of Open Research Software, Pattern Recognition