Timothy Raymond Brick, PhD

PERSONAL INFORMATION

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`https://sites.psu.edu/realtimescience`

Citizenship:

USA

FORMAL EDUCATION

PhD Psychology August 2011
University of Virginia, Charlottesville, VA (advisor Steven M. Boker)
Dissertation Title: *(Re)moving Parts: Towards A System for the Separation of Affective Movements in Facial Video*

MS Computer Science and Engineering August 2007
University of Notre Dame, Notre Dame, IN (primary advisor Matthias Scheutz)
Thesis Topic: Tide*: A Timing-sensitive Incremental Discourse Engine*

BA Psychology May 2002
Magna Cum Laude University of Notre Dame, Notre Dame, IN

BS Computer Science and Engineering May 2001
Magna Cum Laude University of Notre Dame, Notre Dame, IN

PROFESSIONAL ACADEMIC POSITIONS

2014-Present: *Assistant Professor*, Department of Human Development and Family Studies, Pennsylvania State University

Summer 2014: *Visiting Researcher*, Center for Lifespan Psychology, Max Planck Institute for Human Development

2011-2014: *Forschungsstipendiat (Postdoctoral Research Fellow)*, Formal Methods Project, Center for Lifespan Psychology, Max Planck Institute for Human Development

Fall 2008: *Adjunct Professor*, Department of Psychology, University of Virginia.
Co-instructor for Introductory Graduate Statistics

2007–2011: *Graduate Student*, Department of Psychology, University of Virginia.

2005–2007: *Graduate Student*, Joint PhD Program in Computer Science and Psychology, University of Notre Dame

Total Professional Positions: 6

HONORS AND AWARDS

Predoctoral Fellow (2009-2010) National Institute on Aging Training Grant–Quantitative Modeling in Aging Research. Grant Number: T32 AG20500-08 PI: John R. Nesselroade, University of Virginia.

LIFE Program Fellow (2008-2010) selected for membership in the international LIFE program on lifespan development.

LIFE Program Fellow/Fellow Speaker (2008-2010) appointed to represent the Virginia fellows as a member of the steering committee.

Presidential Fellow (2007-2011) from the University of Virginia.

Eli J. Lily Presidential Fellow (2005-2007) from the University of Notre Dame.

John D. Reilly Scholar (2002) for excellence in interdisciplinary undergraduate studies.

PEER REVIEWED ARTICLES, PAPERS, AND ABSTRACTS

⋆indicates student authors

30. Oravecz, Z., & **Brick, T. R.** (2018). Associations Between Slow- and Fast-Timescale Indicators of Emotional Functioning. Social Psychological and Personality Science. doi: 10.1177/1948550618797128.

29. Snoke, J.⋆, **Brick, T. R.**, Slavković, A., & Hunter, M. D. (2018). Providing Accurate Models Across Private Partitioned Data: Secure Maximum Likelihood Estimation. *Annals of Applied Statistics* 12:2, 877–914. doi: 10.1214/18-AOAS1171.

28. Pritikin, J., **Brick, T.R.**, & Neale, M.C. (2018). Multivariate normal maximum likelihood with both ordinal and continuous variables, and data missing at random. *Behavior Research Methods*. 50(2):490. doi: 10.3758/s13428-017-1011-6.

27. **Brick, T.R.**, Gray, A. L.⋆, & Staples, A. D. (2018). Recurrence quantification for the analysis of coupled processes in aging. *Journal of Gerontology B: Psychological Sciences/Social Sciences*. 73(1), 134–147. doi: 10.1093/geronb/gbx018. PMCID: PMC5927149

26. **Brick, T.R.**, Koffer, R.⋆, Gerstorf, D., & Ram, N. (2018). Feature selection methods for optimal design of studies for developmental inquiry. *Journal of Gerontology B: Psychological Sciences/Social Sciences*. 73(1), 113-123. doi: 10.1093/geronb/gbx008. PMCID: PMC6075467

25. Brinberg, M.⋆, Ram, N., Hülür, G., **Brick, T.R.**, & Gerstorf, D. (2018). Analyzing Dyadic Data Using Grid-Sequence Analysis: Interdyad Differences in Intradyad Dynamics. *The Journals of Gerontology: Series B*, 73(1), 5–18. doi: 10.1093/geronb/gbw160.

24. Szymanski, C.*, Müller, V., **Brick, T. R.**, von Oertzen, T., & Lindenberger, U. (2017). Hyper-transcranial alternating current stimulation: Experimental manipulation of inter-brain synchrony. Frontiers in Human Neuroscience, 11, 539. doi: 10.3389/fnhum.2017.00539. PMCID: PMC5682643

23. Perdikis, D., Volhard, J.*, Müller, V., Kaulard, K., **Brick, T.R.**, Walraven, C., and Lindenberger, U. (2017). Brain synchronization during perception of facial emotional expressions with natural and unnatural dynamics. *PLoS One*. 12(7):e0181225. doi: 10.1371/journal.pone.0181225. PMCID: PMC5517022

22. Fredman, S. J., Le, Y.*, Marshall, A. D., **Brick, T. R.**, & Feinberg, M. E. (2017). A dyadic perspective on PTSD symptoms' associations with couple functioning and parenting stress in first-time parents. Couple and Family Psychology: Research and Practice, 6, 117-132. doi: 10.1037/cfp0000079. PMCID: PMC5667905

21. Pritikin, J. N., Hunter, M. D., Oertzen, von, T., **Brick, T. R.**, & Boker, S. M. (2017). Many-Level multilevel Structural Equation Modeling: An efficient evaluation strategy. *Structural Equation Modeling: a Multidisciplinary Journal*, 24(5), 684-698. doi: 10.1080/10705511.2017.1293542. PMCID: PMC5875450

20. Szymanski, C.*, Pesquita, A., Brennan, A. A., Perdikis, D., Enns, J. T., **Brick, T. R.**, Müller, V., and Lindenberger, U. (2017). Teams 'on the same wavelength' perform better: Inter-brain phase synchronization constitutes a neural substrate for social facilitation. *Neuroimage* 152: 425-436.doi: 10.1016/j.neuroimage.2017.03.013.

19. Bezawada, S., Hu, Q., Gray, A., **Brick, T. R.**, & Tucker, C.. (2016). Automatic facial feature extraction for predicting designers' comfort with engineering equipment during prototype creation. *Journal of Mechanical Design*. doi: 10.1115/1.4035428.

18. Hu, Q.*, Bezawada, S.*, Gray, A.*, **Brick, T. R.**, & Tucker, C. (2016). Exploring the link between task complexity and students' affective states during engineering laboratory activities. *Proceedings of the ASME 2016 International Design Engineering Technical Conferences and Computers and Information in Engineering Conference (IDETC/CIE 2016).* doi: 10.1115/DETC2016-59757.

17. Snoke, J.*, **Brick, T. R.**, & Slavković, A. (2016). Accurate estimation of Structural Equation Models with remote partitioned data. In Domingo-Ferrer, J., & Pejić-Bach, M. *Privacy in Statistical Databases: UNESCO Chair in Data Privacy, International Conference, PSD 2016, Dubrovnik, Croatia, September 14–16, 2016, Proceedings.* (pp. 109-209) doi: 10.1007/978-3-319-45381-1_15.

16. Doub, A.E.*, Small, M. L., Levin, A., & LeVangie, K., **Brick, T. R.** (2016). Identifying users of traditional and Internet-based resources for meal ideas: An association rule learning approach. *Appetite*, 103:128–136. doi: 10.1016/j.appet.2016.04.006.

15. Ram, N., Benson, L.*, **Brick, T. R.**, Conroy, D. E., & Pincus, A. L. (2016). Behavioral landscapes and earth mover's distance: A new approach for studying individual differences

in density distributions. *Journal of Research in Personality*. Available online 6 June 2016. doi: 10.1016/j.jrp.2016.06.010. PMCID: PMC5612642

14. Boker, S. M., **Brick, T. R.**, von Oertzen, T., Estabrook, R., Pritikin, J. N., Hunter, M. D., Maes, H.H., & Neale, M. C. (2015). Maintained individual data distributed likelihood estimation (MIDDLE). *Multivariate Behavioral Research*, *50*(6), 706–720. doi: 10.1080/00273171.2015.1094387. PMCID: PMC4804354

13. Filevich, E., Dresler, M., **Brick, T.R.**, and Kühn, S. (2015). Metacognitive mechanisms underlying lucid dreaming. *Journal of Neuroscience*. 35(3), 1082–8. doi: 10.1523/JNEUROSCI.3342-14.2015.

12. Neale, M. C., Hunter, M. D., Pritikin, J., Zahery, M., **Brick, T. R.**, Kirkpatrick, R. M., Estabrook, R., Bates, T. C., Maes, H. H., and Boker, S.M. (2015). OpenMx 2.0: Extended structural equation and statistical modeling. *Psychometrika*. doi: 10.1007/s11336-014-9435-8. PMCID: PMC4516707

11. Kühn, S., **Brick, T. R.**, Müller, B. C. N., and Gallinat, J. (2014). Is this car looking at you? How anthropomorphism predicts fusiform face area activation when seeing cars. *PLoS ONE*, 9(12): e113885. doi: 10.1371/journal.pone.0113885. PMCID: PMC4269424

10. von Oertzen, T., & **Brick, T. R.** (2014). Efficient hessian computation using sparse matrix derivatives in RAM notation. 46(2), 385–95 *Behavior Research Methods*. doi: 10.3758/s13428-013-0384-4.

9. **Brick, T. R.**, & Boker, S. M. (2011). Correlational methods for analysis of dance movements. *Dance Research*, 29(2), 283-–304. doi: 10.3366/drs.2011.0021.

8. Boker, S., Neale M., Maes, H., Wilde, M., Spiegel, M., **Brick, T.**, Spies, J., Estabrook, R., Kenny, S., Bates, T., Mehta, P, & Fox J. (2011). OpenMx: An Open Source Extended Structural Equation Modeling Framework. *Psychometrika*. doi: 10.1007/s11336-010-9200-6. PMCID: PMC3525063

7. Boker, S., Cohn, J., Theobald, B., Matthews, I., Mangini, M., Spies, J., Ambadar, Z. & **Brick, T.** (2011) Something in the way we move: Motion dynamics, not perceived sex, influence head movements in conversation. *Journal of Experimental Psychology: Human Perception & Performance*. 37(2), 631—640. doi: 10.1037/a0021928.

6. **Brick, T. R.**, Hunter, M. D., & Cohn, J. (2009). Get the FACS Fast: Automated FACS face analysis benefits from the addition of velocity. *Proceedings of the 2009 International Conference on Affective Computing & Intelligent Interactions (ACII 2009).* doi: 10.1109/ACII.2009.5349600. PMCID: PMC3035391

5. Boker, S., Cohn, J., Theobald, B., Matthews, I., **Brick, T.**, & Spies, J. (2009) Effects of damping facial expression in dyadic conversation using real–time facial expression tracking and synthesized avatars. *Philosophical Transactions of the Royal Society B*, 364(1535). doi: 10.1098/rstb.2009.0152. PMCID: PMC2781890

4. **Brick, T. R.**, Spies, J. R., Theobald, B.-J., Matthews, I. & Boker, S. M. (2009). High-presence, low-bandwidth, apparent 3d video-conferencing with a single camera. *Proceedings of the 10th International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS 2009)*. doi: 10.1109/WIAMIS.2009.5031494.

3. Theobald, B., Matthews, I., Mangini, M., Spies, J., **Brick, T.**, Cohn, J. F. & Boker, S. (2009) Mapping and manipulating facial expression. *Journal of Language and Speech*, 52(2/3), 369–386. doi: 10.1177/0023830909103181. PMCID: PMC2716035

2. **Brick, T. R.**, Schermerhorn, P.W., & Scheutz, M. (2007). Speech and action: Integration of action and language for mobile robots. *Proceedings of the 2007 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS 2007)*, 1423–1428. doi: 10.1109/IROS.2007.4399576.

1. **Brick, T.**, & Scheutz, M. (2007). Incremental natural language processing for HRI. *Proceedings of the Second ACM IEEE International Conference on Human-Robot Interaction (HRI 2007)*. doi: 10.1145/1228716.1228752.

Total Peer Reviewed Publications: 30

MANUSCRIPTS IN REVIEW/REVISION

⋆indicates graduate students
Manuscripts available upon request

10. Dickens, C.N.⋆, Gray, A.L.⋆, **Brick, T.R.**, & Oravecz, Z. (submitted). "Can You Feel the Love Tonight?": Implications of Felt Love for Sleep.

9. Adams, E.⋆, Marini, M. E., **Brick, T.R.**, Paul, I. M., Birch, L., & Savage, J. (submitted) Ecological momentary assessment of using food to soothe during infancy in the INSIGHT trial.

8. Szymanski, C.⋆, **Brick, T. R.**, Perdikis, D., Müller, V., Karch, J. & Lindenberger, U. (submitted). Neural Synchronization during Reciprocal and Parallel Dyadic Gaming.

7. Schneider, J.*, **Brick, T.R.**, & Dziobek, I (submitted). Towards an understanding emotional arousal in facial expression.

6. **Brick, T. R.**, Staples, A. D., & Boker, S. M. (submitted). Attributed Emotions from Thin Slices of Natural Conversation are Primarily Mixed Emotions.

5. Osotsi, A.⋆, Oravecz, Z., Li, Q., Smyth, J., & **Brick, T. R.** (submitted). Individualized modeling to distinguish between high and low arousal states using physiological data. Journal of Healthcare Research Informatics.

4. Oravecz, Z., Dirsmith, J., Heshmati, S., Vandekerckhove, J. & **Brick, T. R.** (submitted). Psychological Well-Being and Personality Traits are Associated with Experiencing Love in Everyday Life.

3. Heshmati, S.⋆, **Brick, T. R.**, Roeser, R., Oravecz, Z. (submitted). Momentary PERMA as a correlational network: Empirical evidence for daily measures of well-being via network analysis.

2. Schneider, J.*, **Brick, T.R.**, and Dziobek, I. (submitted). Difficulty of emotional facial expression perception from dynamic stimuli.

1. Gray, A. L.⋆, **Brick, T. R.**, & Boker, S. M. (submitted). Multiple Information Pathways in the Expression of Conversational Affect.

Total Manuscripts In Review/Revision: 10

MANUSCRIPTS IN PREPARATION

⋆indicates graduate students
Manuscripts available upon request

10. **Brick, T.R.**. & Bailey, D. (in prep). Rock the MIC: The Matrix of Implied Causation as a Model Checking Tool.

9. **Brick, T. R.**, Oravecz, Z., & Heshmati, S. (in prep). Developing an ecological momentary assessment measure of psychological well-being: A multilevel factor analysis.

8. **Brick, T. R.**, Mårtensson, J., & Kühn, S. (in prep). The Faces of Neural Processing: Inverting traditional PLS analysis.

7. **Brick, T. R.**, & Ram, N. (in prep). A network model of emotion regulation.

6. Knapp, K. S.⋆, Cleveland, H. H., **Brick, T. R.** & Bunce, S. C. (in prep) The Role of Negative Affect and Social Experiences in Predicting End-of-Day Craving for Individuals in Inpatient Treatment for Opioid Use Disorders.

5. Doub-Hepworth, A.⋆, **Brick, T. R.**, Small, M., & Birch, L. (in prep). A New Conceptual Model of Information Seeking and Use.

4. Doub-Hepworth, A.⋆, Small, M., Birch, L. & **Brick, T. R.**,(in prep). A Repeated Measures Analysis of Parents' Satisfaction with Infant and Toddler Feeding Information: Associations with Information Seeking Aptitude and Information Acquisition Characteristics.

3. Doub-Hepworth, A.⋆, **Brick, T. R.**, Small, M., & Birch, L. (in prep). Exploring Features of Parents' Behavioral Application of Infant and Toddler Feeding Information.

2. Dickens, C., Oravecz, Z., Heshmati, S.⋆& **Brick, T. R.** (in prep). Individual differences and predictive dynamics between feeling and expressing love in everyday life.

1. Shewark, E. A.⋆, **Brick, T. R.**, & Buss, K. A. (in prep). Capturing the temporal dynamics of fear behaviors on a second by second basis.

Total Manuscripts In Preparation: 10

CHAPTERS, BOOKS, AND EDITED COLLECTIONS

2. **Brick, T. R.**, Prindle, J. J. (2017). Time-series Analysis. In Hopkins, B., Geangu, E., and Linkenauger, S. (Eds.) *The Cambridge Encyclopedia of Child Development, Second Edition.* New York, NY: Cambridge University Press. doi: 10.1017/9781316216491.

1. Mårtensson, J., Eriksson, J., **Brick, T.**, Bodammer, N., Lindgren, M., Johansson, M., Nyberg, L., and Lövdén, M. (2014). Proficiency and brain structure during intense language learning. In Horne, M., Lindgren, M., Nilsson, M., Roll, M., Shtyrov, Y., Ståhlberg, F., and Topgaard, D., (Eds.) *Microstructures of Learning: Novel methods and approaches for assessing structural and functional changes underlying knowledge acquisition in the brain.* (pp 17-20). Frontiers Media SA. ISBN 978-2-88919-480-3.

Total Chapters, Books, And Edited Collections: 2

SOFTWARE PUBLICATIONS

3. Schneider, J. & **Brick, T. R.**. (2018). plsR: An R package for PLS analysis. Package submitted to CRAN.

2. Neale, M. C., Hunter, M. D., Pritikin, J., Zahery, M., **Brick, T. R.**, Kirkpatrick, R. M., Estabrook, R., Bates, T. C., Maes, H. H., and Boker, S. M. (2014). *OpenMx: Extended Structural Equation Modeling Framework (Latest Version 2.0)*, `http://openmx.ssri.psu.edu/`. Role: Primary developer, computational kernel.

1. **Brick, T. R.**, Braun, J.*, Harrill, C., & Yu, M. (2013) "Face Modeling GUI, Version 0.2β." Software for facial expression analysis and stimulus synthesis. Adapted and expanded from a framework by J.R. Spies. Available from `http://tbrick.net/facemodelinggui.html`

Total Major Software Publications: 3

PATENTS

1. Boker, S. M., **Brick, T. R.**, & Spies, J. R. (2015) "System and method for low bandwidth image transmission." *U.S. Patent No. 9030486 B2.* Washington, DC: U.S. Patent and Trademark Office.

Total Patents: 1

EXTERNAL FUNDING

8. **IGE: Individualized Pathways and Resources to Adaptive Control Theory-Inspired Scientific Education (iPRACTISE)**, PI: Chow. Funded by the National Science Foundation (DGE-1806874); September 1, 2018–August 31, 2021. PI: Sy-Miin Chow. Award Amount:$490,804. Role: Co-I, Grant Co-author.

7. **The Center for Innovation in Intensive Longitudinal Studies (CIILS)**. Funded by the National Institute on Alcohol Abuse and Alcoholism (1 U24 AA027684-01). September 20, 2018–August 31, 2022. PI: Sy-Miin Chow. Award Amount: $1,835,411. Role: Co-I in charge of data harmonization, Grant Co-author.

6. **STINT: Brain change and knowledge acquisistion during 2015-2018 university studies of math or language**, Funded by the Swedish Foundation for International Cooperation in Research and Higher Education (STINT); 2015-2018. PI: Johan Mårtensson. Award Amount: $35,000. Role: Co-I, Grant Co-author.

5. **NSF NRI: Observation, Inference and Intervention: An Adaptive Co-robot System that Provides Individually Customized Performance Feedback Based on Students' Affective States** PI: Conrad Tucker. Co-PI: Timothy R. Brick. Funded by the National Science Foundation National Robotics Institute (NRI-1527148); September 1, 2015–August 31, 2018. Award Amount: $342,574.00. Role: Co-PI, Grant Co-author.

4. **BMBF: Vom Emotionsmodell zum adaptiven Lernen: Emotionssensitive Systeme zum Training sozialer Kognition (EMOTISK) [From emotional modeling to adaptive learning: An Emotion-sensitive System for Training Social Cognition (EMOTISK)]**. Funded by the German Ministry for Education and Research (BMBF); April 1, 2015–March 31, 2018. PI: Isabel Dziobek. Award Amount: $1,2807,200. Role: Co-I, Grant Co-author.

3. **Beaumont Foundation of America Educational Institution Pilot Grant** Funded by Beaumont Foundation of America. August 2003–May 2004; Grant in kind: $45,000 Equipment Total Costs. Role: Grant Co-author; Grant Administrator.

2. ***Teca Oyate Waonspekiya*** Americorps National Service Grant] Funded by Corporation for National Public Service. December 2003-November 2006; $633,000 Total Costs. Role: Grant Co-author; Interim Administrator.

1. ***Wakanyeja kin Wokiye Owicakiyapi*** 21st Century Learning Center] Funded by South Dakota Department of Education and Cultural Affairs; January 2004–December 2009; $600,000 Total Costs. Role: Grant Author.

Total External Funding Sources: 8

INTERNAL FUNDING SOURCES

7. **Facilitated Support: Wear-IT**. Funded by the Social Science Research Institute; July 2018–June 2019. PI: Timothy R. Brick. Award Amount: $59, 461 Role: PI.

6. **Parent Regulation in Stressful Moments (PRISM)**. Funded by the Social Science Research Institute; August, 2018–July 2019. PI: Erika Lunkenheimer. Award Amount: $5,000. Role: Co-I

5. **Wear-IT Together: An integrative framework for physiological and social data collection**. Funded by the College of Health and Human Development and the Penn State Research Foundation; August 15, 2016–August 14, 2017. PI: Timothy R. Brick. Co-PI: Zita Oravecz. Award Amount: $54,000. Role: PI

4. Match funding for programmer support. Funded by the PSU Social Science Research Institute; April 1, 2015–March 31, 2017 PIs: Timothy R. Brick, & Zita Oravecz. Total Award Amount: $116,121.80. Role: PI

3. **Pre-Doctoral Fellowship (2009–2010).** National Institute on Aging Grant Title: Training in Quantitative Modeling in Aging Research
Grant Number: T32 AG20500-08 PI: John R. Nesselroade, PhD, University of Virginia

2. **Presidential Fellowship** for promising doctoral students. Awarded by the University of Virginia.

1. **Eli J. Lily Presidential Fellowship** for promising doctoral students. Awarded by the University of Virginia.

Total Internal Funding Sources: 7

OTHER SELECTED SOFTWARE PROJECTS

⋆indicates graduate students, ⋆⋆indicates undergraduates

2. **Brick, T. R.**, Jednoralski, D.⋆, Nehls, R.⋆⋆, and Verrel, J. (2012) "Vestibular Augmentation System, Version 0.1." Hardware and software system for augmentation of vestibular stabilization in older adults.

1. **Brick, T. R.** (2007) "TIDE: Timing-sensitive Incremental Discourse Engine." A module for incremental discourse understanding and generation for the DIARC Robotic Architecture.

Total Software Projects: 2

INTERNATIONAL AND DOMESTIC INVITED TALKS

In all cases, first author is presenting author. Underline indicates additional presenters.
⋆indicates graduate students

9. **Brick, T. R.** (2018). Finding What Matters: Sequence Learning and Feature Selection for Real-time Science. Presented to the Psychologisch Instituut, KU Leuven. Leuven, Belgium; Sept. 20, 2018.

8. **Brick, T. R.** (2017). Towards Science in Real Time: Machine Learning and Image Processing for Behavioral Science. Presented to the Lund University Department of Psychology, Cognitive Psychology Group. Lund, Sweden; May 12, 2017.

7. **Brick, T. R.** (2017). Faces and Factors: Computer vision and Data reduction in the Behavioral Science. Presented to the Humanities Laboratory at the Centre for Languages and Literature, Lund University. Lund, Sweden; May 16, 2017.

6. **Brick, T. R.** (2016). Dynamical Systems Theory. Presented to the LIFE Academy Methods Series. Berlin, Germany; December 15, 2016.

5. **Brick, T. R.** (2016). Towards continual prediction: Personalized selection of features in longitudinal and timeseries data. Presented to the conference COGITO: Ten Years Later. Berlin, Germany; October 5–7, 2016.

4. **Brick, T. R.** (2016). Driving the dynamics: Simulations to assist real time modeling. Presented to the Dynamical Systems Modeling Expert Meeting. Aberdeen, Scotland, UK; August 08–09, 2016.

3. **Brick, T. R.** (2015) Dynamical Systems and Emotional Interaction. Presented at the 2015 meeting of the Animal Behavior Society. Anchorage, AK, USA; June 13, 2015.

2. **Brick, T. R.** (2013) Computerized Interpretation and Generation of Emotional Expression. Presented at the *MPI-B Research Colloquium*; Berlin, Germany; May 5, 2013.

1. **Brick, T. R.** (2013) Face Reading and Interactive Responses. Presented to the Frauenhofer Institute; Berlin, Germany; August 20, 2013.

Total Invited Talks: 9

WORKSHOP TEACHING EXPERIENCE

8. 2015 Advanced Genetic Epidemiology Statistical Workshop. Richmond, VA, USA; October 26-30, 2015. Role: Faculty.

7. "Time and Variability: An Introduction to Intraindividual Variability and Dynamical Systems Analysis." Part of the "It's About Time" workshop at the 2015 meeting of the Animal Behavior Society. Anchorage, AK, USA; June 10, 2015. Role: Faculty.

6. "Introduction to Structural Equation Modeling". Workshop at the Max Planck Institute for Human Development, Berlin. April 26, 2013. Role: Faculty, co-organizer.

5. "Structural Equation Modeling". Workshop at the Freie Universität, Berlin. March 14–15, 2013. Role: Faculty, co-organizer.

4. Workshop: "2nd Annual INAPIC Fall Workshop: Longitudinal Methods to Analyze Brain-Behavior Relationships". Zurich, Switzerland; August 2012. Role: Faculty.

3. Workshop: "New methods for conceptualizing, analyzing, and visualizing dyadic data within and across persons". Zurich, Switzerland; August 2011. Role: Faculty.

2. 2010 International Workshop on Statistical Genetics and Methodology of Twin and Family Studies. Boulder, CO; March 2010. Role: Faculty.

1. "Introduction to LaTeX". Single-session seminar on LaTeX typesetting system. Charlottesville, VA. 2007 and 2008. Role: Instructor and Organizer.

Total Workshops: 8

CONFERENCE / WORKSHOP TALKS, POSTERS, and ABSTRACTS

Underline indicates presenter other than first author.
⋆indicates graduate students.

47. Enk, L., O'Connel, G., Prehn, K., Domke, J., **Brick, T. R**, Dziobek, I., Wiegand, A. (2018). How much of me do I see in you: Neural correlates of self-other distinction in the affective domain. Poster presented at the 11th Scientific Meeting for Autism Spectrum Conditions. Frankfurt am Main, Germany; March 15–16, 2018.

46. Filevich, E., **Brick, T. R.**, Kühn, S., & Verrel, J. (2017). Metacognition of movement: the case of facial expressions.

45. **Brick, T. R.** (2017). Selection of measurement types and times for real-time dynamical modeling. Presented at the Dynamical Systems Experts Meeting as part of the 5th Biennial Conference of the Society for Ambulatory Assessment (SAA 2017). Belval, Luxembourg; June 15–17, 2017.

44. **Brick, T. R.** (2017). Data mining approaches for the dynamics of well-being. Presented at the Workshop on Models and Methods to Study Psychological Well-Being as part of the 29th Annual Convention of the Association for Psychological Science (APS 2017). Boston, MA, USA; May 25–28, 2017.

43. **Brick, T. R.**, & Tucker, C. (2016) Real Time Observation, Inference and Intervention of Co-robot Systems: Towards Individually Customized Performance Feedback Based on Students' Affective States. Presented to the National Robotics Initiative Principal Investigators meeting (NRI-PI 2016). Washington, DC, USA; November 29–30, 2016.

42. **Brick, T.R.**, Koffer, R.⋆, Gray, A.⋆, Gerstorf, D. & Ram, N. (2016). Finding the Right Variables, Study Design, and Theory Using Feature Selection Methods. Presented to the Meeting of the Gerontological Society of America (GSA 2016). New Orleans, LA, US; November 17–20, 2016.

41. Brinberg, M.⋆, **Brick, T.R.**, Hülür, G., Gerstorf, D. & Ram, N. (2016). Dyadic Analysis Using Grid Sequence Methods: Inter-Dyad Differences in Intra-Dyad Dynamics. Presented to the Meeting of the Gerontological Society of America (GSA 2016). New Orleans, LA, US; November 17–20, 2016.

40. Hepworth, A. D., Small, M. L., Birch, L. L., **Brick, T. R.** (2016). #HealthyKids on Instagram: Posts reflect interest in food, family, and personal experience, not children's weight status. Poster presented at the annual meeting of the Obesity Society: Obesity Week 2016, New Orleans, LA; October 21–November 4, 2016.

39. Hepworth, A.⋆, Small, M., Birch, L., & **Brick, T. R.** (2016). Portrayals of infant feeding practices on social media: Baby-led weaning on Instagram. Presented to the Society for Research in Child Development's Special Topics Meeting on Technology and Media in Children's Development. Irvine, CA, US; October 27–30, 2016.

38. Fredman, S. J., Le, Y.⋆, Marshall, A. D., **Brick, T. R.**, & Feinberg, M. E. (2016). A dyadic perspective on the associations among PTSD symptoms, perceived couple functioning, and parenting stress. In S. J. Fredman (Chair), Partnering and parenting in the presence of PTSD. Symposium conducted at the 50th annual convention of the Association for Behavioral and Cognitive Therapies. New York, NY, US; October 27–30, 2016.

37. Snoke, J.⋆, **Brick, T. R.**, & Slavković, A. (2016). Accurate Estimation of Structural Equation Models with Remote Partitioned Data. Presented to *Privacy in Statistical Databases: UNESCO Chair in Data Privacy, International Conference, (PSD 2016).* Dubrovnik, Croatia, September 14–16, 2016.

36. **Brick, T. R.** (2016). Dynamic adaptation and re-adaptation: Modeling minute-to-minute changes in rapport. Presented to the 28th Annual Convention of the Association for Psychological Science (APS 2016). Chicago, IL, US; May 26–29, 2016.

35. **Brick, T. R.** (2016). Event-contingent Assessment and Model-based Missingness. Presented to the 28th Annual Convention of the Association for Psychological Science (APS 2016). Chicago, IL, US; May 26–29, 2016.

34. Gray, A.⋆, **Brick, T. R.**, & Boker, S.M. (2016). Multiple Information Pathways in the Expression of Conversational Affect. Presented to the 28th Annual Convention of the Association for Psychological Science (APS 2016). Chicago, IL, US; May 26–29, 2016.

33. Koffer, R.⋆, Ram, N., **Brick, T. R.**, Almeida, D., & Tucker, C. (2015) Machine Learning and Developmental Science: Using Boosted Regression Trees to Predict Interpersonal Stressor Occasions. Poster presented to the 68th Annual Scientific Meeting of the Gerontological Society of America (GSA 2015). Baltimore, MD, USA; November 18-22, 2015.

32. Doub, A.⋆, Small, M., Levin, A., LeVangie, K., & **Brick, T. R.** (2015) Examining traditional and Internet-based resources for home cooking information: An association rule learning approach. Poster presented to Obesity Week 2015. Los Angeles, CA, USA; November 2-6, 2015.

31. Tucker, C., **Brick, T. R.**, Dering, M.⋆, Gray, A.⋆, Bezawada, S.⋆, Kohler, A.⋆, Mohammed, A., Shartle, O., & Viola, T. (2015) Real Time Observation, Inference and Intervention of Co-robot Systems: Towards Individually Customized Performance Feedback Based on Students' Affective States. Poster presented at the NSF National Robotics Initiative Principal Investigators meeting. Washington, DC, USA; November 5–6, 2015

30. Tucker, C., **Brick, T. R.**, Dering, M., Gray, A., Bezawada, S., Kohler, A., Mohammed, A., Shartle, O., & Viola, T. (2015) Real Time Observation, Inference and Intervention of Co-robot Systems: Towards Individually Customized Performance Feedback Based on Students' Affective States. Presented to the National Robotics Initiative Principal Investigators meeting (NRI-PI 2015). Washington, DC, USA; November 5–6, 2015

29. **Brick, T. R.** (2015) Row Fit Derivative Clustering for Heterogeneity Analysis. Presented at Modern Modeling Methods (M^3) 2015; Storrs, CT, USA; May 20, 2015.

28. **Brick, T. R.** (2014) Avatars and live videoconference manipulation. Presented at the 1st Annual Workshop on Computationally Intensive Modeling (CompTIES 2014); Tuscon, AZ, USA; Nov. 7, 2014.

27. **Brick, T. R.**, Brandmaier, A. M., & Prindle, John J. (2014) Row Derivatives and Theory Guided Exploration. Presented at the 26th Annual Convention for the Association for Psychological Science (APS 2014); San Francisco, CA, USA; May 25, 2014.

26. **Brick, T. R.**, von Oertzen, T. & Brandmaier, A. M. (2014) Integrating other ideas: PPML and Ωnyx. Presented at the 26th Annual Convention for the Association for Psychological Science (APS 2014); San Francisco, CA, USA; May 22, 2014. Part of the pre-conference OpenMx/SEM workshop.

25. Estabrook, R., & **Brick, T. R.** (2014) MxThreshold: Improving OpenMx Pathic Specification. Presented at the 26th Annual Convention for the Association for Psychological Science (APS 2014); San Francisco, CA, USA; May 22, 2014. Part of the pre-conference OpenMx/SEM workshop.

24. **Brick, T. R.**, Brandmaier, A. M., & Prindle, John J. (2014) Row Derivatives and Theory Guided Exploration. Poster presented at the 26th Annual Convention for the Association for Psychological Science (APS 2014); San Francisco, CA, USA; May 25, 2014.

23. **Brick, T. R.** (2013) Multilevel SEM: Towards a Common Specification. Presented at the 25th Annual Convention for the Association for Psychological Science (APS 2013); Washington, DC, USA; May 24, 2013.

22. **Brick, T. R.** & Brandmaier, A. M. (2012) Modeling Facial Expression Mirroring in Conversation. Presented at the *17th Herbstakademie: The Implications of Embodiment–Enactive, Clinical, Social*; Heidelberg, Germany; October 2, 2012.

21. **Brick, T. R.** (2012) Facing the Odds: Bayesian Modeling of Facial Expression Data. Presented to the *MPS/UCL Symposium on Computational Psychiatry and Aging*; Ringberg, Germany; September 21, 2012.

20. **Brick, T. R.** (2012) Dyadic Longitudinal Models (and a bit about Ergodicity). Presented at the *2nd Annual INAPIC Fall Workshop: Longitudinal Methods to Analyze Brain-Behavior Relationships*; Zurich, Switzerland; September 15, 2012.

19. **Brick, T. R.** (2011) Time-Frequency Transformation for the Separation of Speech and Affect in Facial Movements. Presented at *New England Sequencing and Timing*; Amherst, MA; March 5, 2011.

18. **Brick, T. R.**, & Boker, S. M. (2010) Introduction to Dynamical Systems Analysis. *Advanced Genetic Epidemiology and Statistical Molecular Genetics Workshop*; Richmond, Virginia; October 20, 2010.

17. **Brick, T. R.**, Hunter, M. D., & Cohn, J. (2009) Towards Automatic Recognition of Facial Affect. *Annual Meeting of the Society of Multivariate Experimental Psychology*; Salishan, Oregon; October 9, 2009.

16. Boker, S., Neale, M., Maes, H., Wilde, M., Spiegel, M., **Brick, T.**, Spies, J., Estabrook, R., Kenny, S., Bates, T., Mehta, P., & Fox, J. (2009) OpenMx: Multipurpose Software for Statistical Modeling. *Facilitating Interdisciplinary Research: Methodological and Technological Innovation in the Behavioral and Social Sciences Meeting*; Bethesda, Maryland; October 8, 2009.

15. **Brick, T. R.**, Hunter, M. D., & Cohn, J. (2009) Get the FACS Fast: Automated FACS face analysis benefits from the addition of velocity. Presented to the *2009 International Conference on Affective Computing & Intelligent Interactions (ACII 2009).*; Amsterdam, Netherlands.

14. **Brick, T. R.**, Spies, J. R., Theobald, B.-J., Matthews, I. & Boker, S. M. (2009) High-Presence, Low-Bandwidth, Apparent 3D Video-conferencing With A Single Camera. Presented to the *9th International Workshop on Image Analysis for Multimedia Interactive Services (WIAMIS 2009)*; London, England; May 6–8, 2009.

13. **Brick, T. R.**, & Boker, S. M. (2009) Synchronization with Ambiguous Auditory Rhythms During Unstructured Dance. Presented to the *New England Sequencing and Timing 2009*; New Haven, Connecticut; March 7, 2009.

12. **Brick, T. R.**, Hunter, M. D., & Cohn, J. (2009). Towards Automatic Coding of Facial Expression [Abstract]. *Multivariate Behavioral Research*. doi: 10.1080/00273170903467356.

11. Boker, S. M., **Brick, T. R.**, Monpetite, M. A. & Bergeman, C. S. (2008) Modeling Individual Changes due to Resiliency using Differential Equations. *Individual Pathways of Change*; The Pennsylvania State University; September 11, 2008.

10. Boker, S. M., **Brick, T. R.** & Spies, J. R. (2008) Coordination of Facial Expressions and Head Movement in Dyadic Conversation. *New England Sequencing and Timing* ; New Haven, Connecticut; March 8, 2008.

9. Matthews, I., Boker, S. M., Theobald, B.–J., Cohn, J. F., Mangini, M., Spies, J. R., **Brick, T. R.**, & Abadar, Z. (2007) Facial Expression and Motion in Dyadic Conversation. *Meeting of Minds: The Thinking Head Thinking Systems Project*; Parramatta, Australia; November 23, 2007.

8. **Brick, T. R.**, Boker, S. M., Waddell, J. R., & Covey, E.S. Effects of Ambiguous Rhythmic Stimuli on Unconstrained Dance. *2007 Auditory Perception, Action and Cognition Meeting*, Long Beach, California; November 16–18 2007.

7. **Brick, T. R.**, Schermerhorn, P. W., & Scheutz, M. Speech and Action: Integration of Action and Language for Mobile Robots. *2007 IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS '07)*, San Diego, California; October 28 – November 2, 2007.

6. Boker, S. M., Cohn, J. F., Lucey, S., Theobald, B.–J., Matthews, I., Abadar, Z., Mangini, M., Spies, J. R., & **Brick, T. R.** (2007) Measuring and Manipulating Coordination Dynamics during Conversation. *Annual Meeting of the Society of Multivariate Experimental Psychology*; Chapel Hill, NC; October 18, 2007.

5. Boker, S. M., Cohn, J. F., Lucey, S., Theobald, B.–J., Matthews, I., Abadar, Z., Mangini, M., Spies, J. R., & **Brick, T. R.** (2007) Manipulation of Appearance and Dynamics during Dyadic Interaction. Invited talk presented to the *National Science Foundation Human and Social Dynamics Program Annual PIs Meeting*; Arlington, Virginia; October 2, 2007.

4. **Brick, T.** & Scheutz, M. (2007) Incremental Natural Language Processing for HRI. Poster presented at the *Second ACM IEEE International Conference on Human-Robot Interaction*, Boston, Massachusetts; March 2007.

3. Boker, S. M., Cohn, J., Matthews, I., Ashenfelter, K., Spies, J., **Brick, T.**, Deboeck, P., Covey, E. & Tiberio, S. (2006) Coordinated Motion and Facial Expression in Dyadic Conversation. Poster presented to the 2006 NSF–HSD P.I. meeting; Washington, DC; September 14–15, 2006.

2. Schermerhorn, P., Kramer, J., **Brick, T.**, Anderson, D., Dingler, A., & Scheutz, M. (2006) DIARC: A Testbed for Natural Human-Robot Interaction. In *Proceedings of the 2006 AAAI Mobile Robot Workshop*, Boston, Massachusetts, July 2006.

1. **Brick, T. R.**, Boker, S. M., & Waddell, J. L. (2006) Joint Location and Angle Extraction for Pose Estimation from Underconstrained Motion Capture Data. Presented at the *Annual Conference of the North American Association for Computational, Social, and Organizational Science*, Notre Dame, Indiana; June 22–23, 2006.

Total Conferences And Workshop Talks, Posters, And Abstracts: 47

GRADUATE AND UNDERGRADUATE TEACHING EXPERIENCE

6. Methods of Research in Human Development (HD FS 516). Penn State University. Annual; Designer and Classroom head. Foundations of statistical analysis.

5. Applied Statistics Laboratory (HD FS 518). Penn State University. Annual; Designer and overseer of graduate classroom head. Introductory applications of statistics and literate computing in R/RStudio.

4. Health, Technology, and Personal Data Collection (HD FS 497D). Penn State University. In development; Designer and Classroom Head. Discussion of current trends in modern health-data collection and management tools (e.g. electronic health records, wearables, etc), and discussion of issues of privacy, law, ethics, and logistics associated with their adoption.

3. Mining the Internet with Python (HD FS 597B). Penn State University. Biennial; Developer and Classroom Head. An introduction to computational thinking and Python programming using the example of Internet data collection, processing, and analysis.

2. Data Mining for Human Developement (HD FS 597E). Penn State University. Biennial; Developer and Classroom Head. A broad introduction to modern data mining techniques and exploratory visualizations, and their application in the behavioral sciences.

1. Quantitative Methods I and Laboratory (PSY 771/772). University of Virginia. Co-designer and co-instructor with Ryne Estabrook. Introductory statistical methods and lab. Adjunct co-instructor. Charlottesville, VA; May 2010.

   Teaching Assistant. Psycholinguistics (PSY 428) under Dr. Kathleen Eberhard. University of Notre Dame. Fall 2002.

Total Graduate And Undergraduate Teaching Experience: 7

OTHER TEACHING EXPERIENCE

6. "Dynamical Systems Theory." Given to the LIFE program on lifespan developmental psychology. Berlin, Germany, 2016. Guest lecture.

5. "Vector Spaces, Principal Components, and Factor Analysis." and "Face Mining, and a bit about emotion." Given to Data Mining Driven Design (EDSGN/IE/CSE 561) for Dr. Conrad Tucker, 2015. Guest lecture.

4. "Reading the Face: Avatars and Behavioral Interactions." Given to Social Data Analytics Seminar (SoDA 502) for Dr. Burt Monroe. 2014. Guest lecture.

3. "Avatars, Embodiment, and Artificial Intelligence". Given to Artificial Intelligence (CS 416) for Dr. Worthy Martin. 2008, 2009, and 2011. Guest lecture.

2. APA Advanced Training Institute: Structural Equation Modeling in Longitudinal Research, Charlottesville, VA; May 2010. Role: Teaching Assistant.

1. Structural Equation Modeling in OpenMx. Workshop given to the LIFE academy, 2009. Role: Teaching Assistant.

   High School Teacher Red Cloud Indian School. Fall 2002 – Spring 2005. High school.

Total Other Teaching Experiences: 7

LOCAL SEMINAR PRESENTATIONS and POSTERS

25. Heidle**, C. I., Small, M. L., **Brick, T. R.**, & Hepworth*, A. D. (2017). Can an existing theory be adapted to better predict parents' infant feeding information seeking behaviors? Poster presented at the Pennsylvania State University Undergraduate Research Exhibition, University Park, PA. Awarded 1st place in the University Libraries Information Literacy Award competition.

24. **Brick, T. R.** (2017) END CONFIRMATORY ANALYSIS!!!! (Or: In defense of data-driven approaches). Presented to the weekly meeting of the Quantitative Developmental Systems Group. State College, PA; Feb. 20, 2017.

23. **Brick, T. R.** (2016) In-the-moment Monitoring and Manipulation: Real Science in Real-time. Presented to the weekly meeting of the Quantitative Developmental Systems Group. State College, PA; Sept. 16, 2016.

22. **Brick, T. R.** (2016) Why it helps to make things up: Using simulation approaches to understand real-time process models. Presented to the weekly meeting of the Quantitative Developmental Systems Group. State College, PA; Sept. 21, 2016.

21. **Brick, T. R.** (2016) Likelihood Wells: How you see fit(s). Presented to the weekly meeting of the Quantitative Developmental Systems Group. State College, PA; Feb. 03, 2016.

20. **Brick, T. R.** (2015) STOP COLLECTING DATA!!!!! Presented to the weekly meeting of the Quantitative Developmental Systems Group. State College, PA; Feb. 25, 2015.

19. **Brick, T. R.** (2014) Fit Derivatives (and a little about SEM Trees). Presented to the weekly meeting of the Quantitative Developmental Systems Group. State College, PA; Nov. 12, 2014.

18. **Brick, T. R.** (2013) Science, Knowledge, Information, and Conversation: A Quick Survey of Knowledge Discovery and Sharing. Presented to the Berlin International School. Berlin, Germany; May 2, 2013.

17. **Brick, T. R.** (2013) Computerized Interpretation and Generation of Emotional Expression. Presented at the *MPI-B Research Colloquium*; Berlin, Germany; May 5, 2013.

16. **Brick, T.R.** (2012) Emotions, Avatars, and Synchronization. Presented to the Math Competition Group from the Berlin International School. Berlin, Germany; March 22, 2013.

15. **Brick, T.R.** (2012) Formal Methods in Lifespan Psychology (Part II). Presented to the *Lifespan Psychology Project Retreat*. Chorin, Germany; August 30, 2012.

14. **Brick, T.R.** (2012) Sensory Augmentation and Substitution. Presented to the *Computer Science Research Circle* of the Max Planck Institute. Berlin, Germany; April 19, 2012.

13. **Brick, T.R.** (2012) Why Numbers? Why and How Scientists Use Math. Presented to the Math Competition Group from the Berlin International School. Berlin, Germany; March 22, 2012.

12. **Brick, T.R.** (2011) In Your Face: What Computer-generated Avatars Can Do for Psychology. Presented to the *Adaptive Behavior and Cognition* Group at the Max Planck Institute. Berlin, Germany; Nov. 4, 2011.

11. **Brick, T.R.** (2010) Avatars and the Analysis of Affect. Presented at *Design and Data Analysis*, University of Virginia Department of Psychology; Charlottesville, Virginia; Nov. 4, 2010.

10. **Brick, T.R.** (2010) The Statistician's Tour of the OpenMx Back-end. Presented at *Design and Data Analysis*, University of Virginia Department of Psychology; Charlottesville, Virginia; Feb. 11, 2010.

9. **Brick, T.R.** (2009) (Re)moving Parts: A Proposed Method For Separating Different Types of Movement In Facial Expression Data. Presented at *Design and Data Analysis*; Charlottesville, Virginia; October 29, 2009.

8. **Brick, T.R.** (2009) Towards Separation of Distinct Non-stationary Signals in a Time-series. Presented to the Fall Research Academy of the LIFE Program; Ann Arbor, MI; October 16–20, 2009.

7. **Brick, T.R.** (2009) Avatars in Conversation (and People in Conversation with Them). Presented to the Lifespan Development Group at the Max Plank Institute for Human Development; Berlin, Germany; August 4, 2009.

6. **Brick, T.R.** (2009) Conversational Avatar Programming. Presented to the Human Perception, Cognition, and Action Group Meeting at the Max Planck Institute for Biological Cybernetics; Tübingen, Germany; July 7, 2009.

5. **Brick, T.R.** (2009) Multiple Timescales in Conversation. Poster at the Spring Research Academy of the LIFE Program; Zurich, Switzerland; May 25–29, 2009.

4. **Brick, T.R.** (2009) Ambiguous Rhythms and Unconstrained Dance. Presented at Cognitive Area Lunch, University of Virginia Department of Psychology; Charlottesville, Virginia; February 11, 2009.

3. **Brick, T.R.** (2009) Phase to Phase: An Introduction to Phase Analysis. Presented at *Design and Data Analysis*; Charlottesville, Virginia; January 29, 2009.

2. **Brick, T.R.** (2008) Mechanics and Applications of Active Appearance Teleconferencing. Presented at *Design and Data Analysis*; Charlottesville, Virginia; February 28, 2008.

1. **Brick, T.R.** (2007) Segmentation of Swing: An Exploration of Synchronization and Ambiguity in Rhythm and Dance. Presented to the Quantitative Seminar Group, University of Notre Dame, Notre Dame, IN; March 20, 2007.

Total Local Seminar Presentations And Posters: 25

PROFESSIONAL, LOCAL, AND DEPARTMENTAL SERVICE

Review Editor Frontiers in Quantitative Psychology and Measurement. 2017-present.

Member Steering Committee for the PSU Institute for CyberSciences. PSU data governance board. Program, Planning, & Development Committee (PPD&E). 2016-present.

Panel Review Co-chair Intensive Data Collection Methods Panel, Developmental Methodology conference, 2016.

Consultant LIP Retreat 2015. Responsible for evaluating and reviewing the LIP research agenda for the Max Planck Society. Berlin, Germany. 6/23–6/26, 2015.

Coordinator MPI School Workshop for local high school students (2012–2014)

Supervisor High School student praktikum at the Max Planck Institute (three students, 2012-2013)

Designer / Creator Introduction, Welcome, and Demonstration Video for a retreat between the University of Virginia Office of the Vice President of Research and potential corporate partners.

Reviewer Psychological Methods, Perception, Experimental Gerontology, Journal of Gerontology, Journal of the Royal Society-Interface, Frontiers in Psychology, Frontiers in Journal of Consulting and Clinical Psychology, Dance Research Electronic, Applied Perception in Graphics and Visualization (APGV), International Conference on Affective Computing & Intelligent Interactions (ACII), International Conference on Intelligent Robots and Systems (IROS), International Symposium on Robot and Human Interactive Communication (ROMAN).

Reviewer (conference abstracts) Student Session for the Annual Meeting of the Society for Multivariate Experimental Psychology (SMEP).

Co-Chair, Professional Issues Committee Fall 2008–Spring 2009 Department of Psychology, University of Virginia.

Professional Seminar Instructor Fall 2007, Fall 2008 & Fall 2010. Single-session seminar on LaTeX typesetting system.

PAST and CURRENT PROFESSIONAL MEMBERSHIPS

American Psychological Association (APA), Association for Psychological Science (APS), Association for Computing Machinery (ACM), Institute of Electrical and Electronic Engineers (IEEE), Society for Mathematical Psychology, Psychometric Society.