

ADELA C. TIMMONS, PH.D.
Curriculum Vitae

Adela C. Timmons, Ph.D. Assistant Professor Clinical and Quantitative Psychology Center for Children and Families Florida International University Technological Interventions for Ecological Systems (TIES) Lab	AHC1 341 11200 SW 8 th St Miami, FL 33199 (305) 348-4538 atimmons@fiu.edu tieslab.fiu.edu
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ACADEMIC POSITION

Assistant Professor (tenure track) 2018-present	Florida International University (FIU) Clinical and Quantitative Psychology Center for Children and Families (CCF) Department of Psychology
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EDUCATION

Clinical Psychology Fellow 2017-18	University of California, San Francisco (UCSF) Predoctoral Clinical Psychology Internship Public Service and Minority Cluster Specialization in Early Childhood Trauma
Ph.D. 2011-18	University of Southern California (USC) <u>Advisors:</u> Dr. Gayla Margolin and Dr. Jack McArdle <u>Dissertation:</u> Ambulatory Assessment Methods for Capturing Naturalistic Couple Interactions in Daily Life
M.A. 2011-13	University of Southern California <u>Advisors:</u> Dr. Gayla Margolin and Dr. Jack McArdle <u>Thesis:</u> Family Conflict, Negative Mood, and Adolescents' Daily Problems in School
B.A. 2007-11	University of Kansas (KU) <u>Advisors:</u> Dr. Kristopher Preacher and Dr. Todd Little <u>Major:</u> Psychology (4.0 cumulative GPA, highest distinction, university honors, psychology honors, Phi Beta Kappa) <u>Minor:</u> Behavioral Sciences Research Methodology <u>Thesis:</u> The Importance of Temporal Design: How Do Measurement Intervals Affect the Accuracy and Efficiency of Parameter Estimates in Longitudinal Research?

GRANTS, FELLOWSHIPS, AND AWARDS

Extramural Grants and Fellowships Funded

2013-16	National Science Foundation (NSF) Graduate Research Fellowship DGE-0937362 <u>Role:</u> Principal Investigator
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Title: The Psychobiological Covariation of Electrodermal Activity between Dating Pairs in Early Adulthood and its Links with Parent-Child Relationships
Total cost: \$132,000

2019

NSF Innovation Corps (I-Corps) Program Grant

Role: Principal Investigator and Technical Lead

Title: A Technology-Facilitated Intervention System for Improving Child Mental Health

Total cost: \$50,000

2018

National Institute on Drug Abuse (NIDA) Training Grant (T32)

Role: Mentor

Title: Training Program in Adolescent Substance Use Disorders and Co-Occurring Mental and Behavioral Disorders

Total cost: \$1,627,050

Score: 26

2016-19

NSF Social, Behavioral, and Economic Sciences Grant

BCS-1627272

Role: Key Personnel

Title: Dating Couple Aggression: Using Technology to Assess Emotions, Vocalizations, and Physiology

Total cost: \$443,232

2015

American Psychological Association (APA) Dissertation Award

Role: Principal Investigator

Title: Romantic Partners' Physiological and Emotional Coregulation in the Home Environment

Total cost: \$1,000

2014-16

Southern California Clinical and Translational Science Institute (SC CTSI) via National Institute of Health (NIH) and National Center for Advancing Translational Sciences (NCATS)

8UL1TR000130

Role: Key Personnel

Title: A Day in the Life: Using Mobile Technology to Measure Romantic Partners' Emotions, Vocalizations, and Physiology as Possible Indicators of Dating Aggression

Total cost: \$28,499

2014

APA of Graduate Students (APAGS) Basic Psychological Science Research Grant

Role: Principal Investigator

Title: Covariation of Physiological Arousal between Dating Pairs in Early Adulthood and its Links with Parent-Child Relationships

Total cost: \$1,000

2012

APAGS/Psi Chi Junior Scientist Fellowship Award

Role: Principal Investigator
Description: Fellowship award for early-stage graduate student scientists
Total cost: \$1,000

Intramural Grants and Fellowships Funded

2018 **UCSF Clinical Research Startup Funds Grant**
Role: Principal Investigator
Title: Assessing PTSD Symptoms in Infants with History of Trauma Exposure
Total cost: \$1,000

2016 **USC Undergraduate Research Associates Program**
Role: Co-Investigator
Title: Capturing Life as it is Lived: Using Mobile Technology to Identify Real-World Indicators of Dating Aggression
Total cost: \$7,500

2011, 16 **USC Wallis Annenberg Endowed Fellowship**
Role: Principal Investigator
Description: Fellowship for researchers studying women, families, and threats to their well-being
Total cost: \$94,000

2015 **USC Undergraduate Research Associates Program**
Role: Co-Investigator
Title: A Day in the Life: Using Mobile Technology to Capture Indicators of Dating Aggression
Total cost: \$9,750

Extramural Grants Pending and under Review

2019 **National Institute of Mental Health (NIMH) Small Business Technology Transfer Grant (STTR)**
Role: Principal Investigator
Title: The Development and Systematic Evaluation of an AI-Assisted Just-in-Time Adaptive Intervention for Improving Mental Health
Total cost: \$3,150,000

2019 **National Institute of Child Health and Human Developmental (NICHD) Ruth L. Kirschstein National Research Service Award (NRSA) Individual Fellowship to Promote Diversity in Health-Related Research (F31)**
Role: Mentor
Title: Examining the Influence of Parenting Practices on Youth's Sleep Health during a Sensitive Developmental Period
Total cost: \$79,903

Grants Submitted and Not Funded

- 2019 **NSF Social, Behavioral, and Economic Sciences Grant**
 Role: Principal Investigator
 Title: Predictive Modeling of Conflict in Couples' Relationships using Machine Learning
 Total cost: \$626,000
- 2019 **National Institute of Biomedical Imaging and Bioengineering (NIBIB) Trailblazer Exploratory/Developmental Grant (R21)**
 Role: Principal Investigator
 Title: Data-Augmented Theory-Driven Models for Discovering Prenatal Maternal Stress in Real Life
 Total cost: \$562,363

Honors and Awards

- 2019 **College of Arts, Sciences, and Education Faculty Award in Research** (first year faculty member)
- 2017 **Second Place, USC Student Innovator Showcase**
 Title: An AI-Assisted App for Your Relationship Health
- 2017 **Gerald Davison Award for Scientific Writing**
- 2016 **Second Place, USC Big Data Symposium**
 Title: Big Data Methods for Capturing Romantic Partners' Physiology, Emotions, and Conversations in Daily Life
- 2012 **Society of Multivariate Experimental Psychology (SMEP) Graduate Student Travel Workshop Award**
- 2011 **Award for Quantitative Methods in Undergraduate Research**
- 2010, 11 **KU Undergraduate Research Award**
- 2010 **KU J. Michael Young Opportunity Award**
- 2009 **KU Departmental Award for Achievement in French**

PUBLICATIONS

Summary

22 publications (16 journal articles, 1 book chapter, 5 conference proceedings, 7 first author)
 233 citations, h-index: 7, i10-index: 6
 *undergraduate or post-baccalaureate student mentee

Journal Articles

1. Comer, J. S., **Timmons, A. C.**, & Weingardt, K. (in press). The other side of the coin: Computer-mediated interactions may afford opportunities for enhanced empathy. *Clinical Psychology: Science and Practice*.
2. Comer, J. S., Conroy, K., & **Timmons, A. C.** (2019). Ensuring wearable devices don't wear out their welcome: Cautions for the mental healthcare road ahead. *Clinical Psychology: Science and Practice*, 26, e12297. doi: 10.1111/cpsp.12297
3. Arbel, R., Schacter, H. L., Han, S. C., **Timmons, A. C.**, Shapiro, L. S., & Margolin, G. (2019). Day-to-day friends' victimization, aggression perpetration, and the cortisol awakening response in

late adolescents. *Developmental Psychobiology*, 61, 930-941. doi: 10.1002/dev.21829

4. **Timmons, A. C.**, Han, S. C., Chaspari, T., *Kim, Y., *Pettit, C., Narayanan S., & Margolin, G. (2019). Family-of-origin aggression, dating aggression, and physiological stress reactivity in daily life. *Physiology & Behavior*, 206, 85-92. doi: 10.1016/j.physbeh.2019.03.020
5. Bernstein, R., **Timmons, A. C.**, & Lieberman, A. F. (2019). Interpersonal violence, maternal perception of infant emotion, and Child-Parent-Psychotherapy. *Journal of Family Violence*, 34, 309-320. doi:10.1007/s10896-019-00041-7
6. Corner, G. W., Saxbe, D. E., Chaspari, T., Rasmussen, H. F., *Perrone, L., *Pettit, C., Friendly, M., **Timmons, A. C.**, & Margolin, G. (2018). Compassion in a heartbeat: Physiology during couples' loss discussions. *Journal of Social and Personal Relationships*. doi: 10.1177/0265407518770267
7. **Timmons, A. C.**, Chaspari, T., Han, S. C., *Perrone, L., Narayanan, S., & Margolin, G. (2017). Using multimodal wearable technology to detect conflict among couples. *IEEE Computer*, 50, 50-59. doi: 10.1109/MC.2017.83
8. **Timmons, A. C.**, Baucom, B. R., Han, S. C., *Perrone, L., Chaspari, T., Narayanan, S., & Margolin, G. (2017). New frontiers in ambulatory assessment: Big data methods for capturing couples' emotions, vocalizations, and physiology in daily life. *Social Psychological and Personality Science*, 8, 552-563. doi: 10.1177/1948550617709115
9. **Timmons, A. C.**, Arbel, R., & Margolin, G. (2017). Daily patterns of stress and conflict in couples: Associations with marital aggression and family-of-origin aggression. *Journal of Family Psychology*, 31, 93-104. doi: 10.1037/fam0000227
10. Arbel, R., Moss, I., Shapiro, L. S., **Timmons, A. C.**, & Margolin, G. (2017). Adolescents' daily worry, morning cortisol, and health symptoms. *Journal of Adolescent Health*, 60, 667-673. doi: 10.1016/j.jadohealth.2017.01.007
11. Margolin, G., Ramos, M. C., **Timmons, A. C.**, Miller, K. F., & Han, S. C. (2016). The intergenerational transmission of aggression: Physiological regulatory processes. *Child Development Perspectives*, 10, 15-21. doi: 10.1111/cdep.12156
12. Miller, K. F., Margolin, G., Shapiro, L. S., & **Timmons, A. C.** (2016). Adolescent life stress and the cortisol awakening response: The moderating roles of attachment and sex. *Journal of Research on Adolescence*, 27, 34-48. doi: 10.1111/jora.12250
13. **Timmons, A. C.**, & Preacher, K. J. (2015). The importance of temporal design: How do measurement intervals affect the accuracy and efficiency of parameter estimates in longitudinal research? *Multivariate Behavioral Research*, 50, 41-55. doi: 10.1080/00273171.2014.961056
14. **Timmons, A. C.**, & Margolin, G. (2015). Family conflict, mood, and adolescents' daily school problems: Moderating roles of internalizing and externalizing symptoms. *Child Development*, 86, 241-258. doi: 10.1111/cdev.12300
15. **Timmons, A. C.**, Margolin, G., & Saxbe, D. E. (2015). Physiological linkage in couples and its implications for individual and interpersonal functioning: A literature review. *Journal of Family Psychology*, 29, 720-731. doi: 10.1037/fam0000115

16. Saxbe, D. E., Ramos, M. C., **Timmons, A. C.**, Rodriguez, A. J., & Margolin, G. (2014). A path modeling approach to understanding family conflict: Reciprocal patterns of parent coercion and adolescent avoidance. *Journal of Family Psychology, 28*, 415-420. doi: 10.1037/a0036817

Book Chapter

17. Chaspari, T., **Timmons, A. C.**, & Margolin, G. (2019). Population-specific and personalized (PSP) models of human behavior for leveraging smart and connected data. In K. C. Li, Q. Zang, L. T. Yang, & B. D. M. *Smart data: State-of-the-art perspectives in computing and applications* (pp. 243-258). Boca Raton, FL: CRC Press, Taylor & Francis Group.

Engineering Conference Proceedings

18. Gujral, A., Chaspari, T., **Timmons, A. C.**, *Barrett, S., & Margolin, G. (2018). Population-specific detection of couples' interpersonal conflict using multi-task learning. *Proceedings of the International Conference on Multimodal Interaction*, 229-233. doi: 10.1145/3242969.3243007
19. Chaspari, T., **Timmons, A. C.**, Baucom, B. R., *Perrone, L., Tsiartas, A., Baucom, K. W. J., Georgiou, P., Margolin, G., & Narayanan, S. (2017). Exploring sparse representation measures of physiological synchrony for romantic couples. *Proceedings of the International Conference of Affective Computing and Intelligent Interaction*, 267-272. doi: 10.1109/ACII.2017.8273611
20. Chaspari, T., Han, S. C., Bone, D., **Timmons, A. C.**, *Perrone, L., Margolin, G., & Narayanan, S. (2017). Quantifying regulation mechanisms in dating couples through a dynamical systems model of acoustic and physiological arousal. *Proceedings of the IEEE International Conference on Audio, Speech, and Signal Processing*, 3001-3005. doi: 10.1109/ICASSP.2017.7952707
21. Chaspari, T., Han, S. C., Bone, D., **Timmons, A. C.**, Margolin, G., & Narayanan, S. (2016). Dynamical systems modeling of acoustic and physiological arousal in young couples. *Proceedings of the Association for the Advancement of Artificial Intelligence Spring Symposium Series*, 343-344.
22. Chaspari, T., Baucom, B. R., **Timmons, A. C.**, Tsiartas, A., Del Piero, L. B., Baucom, K. W. J., Georgiou, P., Margolin, G., & Narayanan, S. (2015). Quantifying EDA synchrony through joint sparse representation: A case study of couples' interactions. *Proceedings of the International Conference on Acoustics, Speech, and Signal Processing*, 817-821. doi: 10.1109/ICASSP.2015.7178083

Manuscripts under Review

Gupta, K., Gujral, A., Chaspari, T., **Timmons, A. C.**, Han, S., *Kim, Y., *Barrett, S., & Sichko, S. Margolin, G. (revise and resubmit). Sub-population specific machine learning models of couples' interpersonal conflict. *Association for Computing Machinery Transactions of Internet Technology*.

Timmons, A. C., Han, S. C., *Kim, Y., *Pettit, C., *Perrone, L., *Power, K. A., *Vitale, L., & Margolin, G. (under review). Fluctuations in pronoun use in everyday life: Understanding couple aggression in context.

Han, S. C., Schacter, H., **Timmons, A. C.**, *Kim, Y., Sichko, S., *Pettit, C., & Margolin, G. (under

review). Annoyance and anger words in dating couples' daily lives: Related to family-of-origin aggression?

Schacter, H. L., Pettit, C., Kim, K., Sichko, S., **Timmons, A. C.**, Chaspari, T., Han, S., & Margolin, G. (under review). A matter of the heart: Daytime relationship functioning and overnight heart rate in young dating couples.

Han, S. C., Baucom, B. R., **Timmons, A. C.**, & Margolin, G. (under review). A systematic review of Respiratory Sinus Arrhythmia in romantic relationships.

Manuscripts in Preparation

Timmons, A. C., Narayan, A., Vu, N. L., Harris, W. W., & Lieberman, A. F. (in preparation). Synergistic childhood adversities and adult psychopathology in pregnancy and post-birth.

Timmons, A. C., Shapiro, L. S., *Pettit, C., *Barrett, S., Chaspari, T., Han, S. C., *Kim, Y., Kumar, M., Narayanan, S., & Margolin, G. (in preparation). Developmental links between mood variability and social interaction: Considerations for using ambulatory assessment.

PATENTS

1. **Timmons, A. C.**, Chaspari, T., Narayanan, S., & Margolin, G. (filed March 4, 2019). US Serial No. 16/291,225: A technology-facilitated support system for monitoring and understanding interpersonal relationships.
2. **Timmons, A. C.**, Chaspari, T., Ahle, M., Narayanan, S., & Margolin, G. (filed March 4, 2019). US Serial No. 16/291,399: An expert-driven, technology-facilitated intervention system for improving interpersonal relationships.

PRESENTATIONS

Summary

54 presentations (15 paper presentations, 39 poster presentations, 19 first author, 13 undergraduate or post-baccalaureate student mentee first author)

*undergraduate or post-baccalaureate student mentee

**graduate student statistical consultee

Paper Presentations

1. **Timmons, A. C.**, Han, S. C., *Kim, Y., & Margolin, G. (June 2019). Fluctuations in pronoun use in couples' everyday conversations: Links with dating aggression. In A. Horn (Chair), Natural language use and social processes. *Symposium presented at the Society for Ambulatory Assessment Conference in Syracuse, NY.*
2. **Timmons, A. C.**, Shapiro, L. S., Pettit, C., *Barrett, S., Chaspari, T., Han, S. C., *Kim, Y., Kumar, M., Narayanan, S., & Margolin, G. (February 2019). Developmental links between adolescent mood variability and later dating relationships: Considerations for using ambulatory assessment. In J. Sun (Chair), Advances in daily life methods. *Symposium presented at the Society for Personality and Social Psychology Conference in Portland, OR.*

3. Gujral, A., Chaspari, T., **Timmons, A. C.**, Han, S. C., & Margolin, G. (March 2018). Real-life detection of interpersonal conflict in couples through the use of wearable and mobile technology. *Paper presented at the International Conference on Wearable and Implantable Body Sensor Networks in Las Vegas, NV.*
4. **Timmons, A. C.**, Han, S. C., *Kim, Y., *Shin, O., *Perrone, L., Chaspari, T., Narayanan, S. & Margolin, G. (April 2017). Family-of-origin aggression, physiological stress reactivity in daily life, and the perpetration of aggression in young adulthood. In L. F. Katz (Chair), *Affective processes and emotion regulation in the context of family violence. Symposium presented at the Society for Research in Child Development Conference in Austin, TX.*
5. **Timmons, A. C.**, Han, S. C., Chaspari, T., *Perrone, L., Narayanan, S., & Margolin, G. (March 2016). Big data methods for capturing romantic partners' physiology, emotion, and conversations in daily life. *Paper presented at the USC Big Data and Human Behavior Symposium in Los Angeles, CA.*
6. Chaspari, T., **Timmons, A. C.**, *Perrone, L., Margolin, G., & Narayanan, S. (March 2016). Knowledge-driven physiological representations for analyzing and interpreting wearable sensor signals. *Paper presented at the USC Big Data and Human Behavior Symposium in Los Angeles, CA.*
7. Chaspari, T., **Timmons, A. C.**, *Perrone, L., Baucom, K. J. W., Georgiou, P, Baucom, B. R., Margolin, G., & Narayanan, S. (January 2016). Quantifying physiological synchrony in romantic relationships with joint sparse representation. *Paper presented at the Computational Mental Health Workshop at the Society for Personality and Social Psychology Conference in San Diego, CA.*
9. **Timmons, A. C.**, Margolin, G., & Baucom, B. R. (November 2014). Synchrony in romantic partners' electrodermal activity in the home environment. In B. R. Baucom (Chair), *Ambulatory physiological measurement in couples and families. Symposium presented at the Association for Behavioral and Cognitive Therapies Conference in Philadelphia, PA.*
10. Miller, K. F., Shapiro, L. S., **Timmons, A. C.**, & Margolin, G. (November 2014). Adolescent stress and diurnal HPA activity: The protective role of peer relationships. In B. R. Baucom (Chair), *Ambulatory physiological measurement in couples and families. Symposium presented at the Association for Behavioral and Cognitive Therapies Conference in Philadelphia, PA.*
11. Shapiro, L. S., **Timmons, A. C.**, Susman, E. J., Miller, K. F., & Margolin, G. (November 2014). Daily variations in adolescents' cortisol awakening responses surrounding days of parent-adolescent conflict. In B. R. Baucom (Chair), *Ambulatory physiological measurement in couples and families. Symposium presented at the Association for Behavioral and Cognitive Therapies Conference in Philadelphia, PA.*
12. **Timmons, A. C.**, Chaspari, T., *Perrone, L., Feng, T., Narayanan, S., & Margolin, G. (June 2015). Dating aggression and physiological connectedness in everyday life. In P. L. K. Plumb (Chair), *Dyadic interactions in daily life. Symposium presented at the Society of Ambulatory Assessment Conference in State College, PA.*
13. Ramos, M. C., & **Timmons, A. C.** (May 2014). The influence of family aggression history on triadic family interactions: Marital hostility, parent-youth alliances, and adolescent symptoms. In M. C. Ramos (Chair), *Family violence exposure and everyday family interactions: Behavioral, neural,*

and physiological findings. *Symposium presented at the Association for Psychological Science Conference in San Francisco, CA.*

14. **Timmons, A. C.**, & Margolin, G. (May 2013). Family conflict, negative mood, and adolescents' daily problems in school. *Paper presented at the USC Leibovitz Conference in Los Angeles, CA.*
15. **Timmons, A. C.**, & Margolin, G. (April 2013). Family conflict, negative mood, and adolescents' daily problems in school. In J. Borelli (Chair), Parent-child relationship quality and children's psychosocial adjustment across development: Child emotion as a mediator/moderator. *Symposium presented at the Society for Research in Child Development Conference in Seattle, WA.*

Poster Presentations

16. *Straka, K. A., Han, S. C., *Kim Y., **Timmons, A. C.**, *Pettit C., *Sichko, S., & Margolin G. (expected November 2019). Mirroring partner speech: Associations with couple aggression and daily feelings of annoyance. *Poster accepted at the International Society for Traumatic Stress Studies Conference in Boston, MA.*
17. *Pettit, C., *Sichko, S., Schacter, H., *Barrett, S., Han, S., *Kim, Y., **Timmons, A. C.**, & Margolin, G. (expected November 2019). A closer look at closeness: The impact of hourly mood on couples' closeness. *Poster accepted at the Association for Behavioral and Cognitive Therapies Conference in Atlanta, GA.*
18. **Jusko, M. L., Raiker, J., Mattfeld, A., **Timmons, A. C.**, Fosco, W., Campey, M., Little, K., Smith, J., & Sanchez, G. (June 2019). Mechanisms underlying reaction time variability in ADHD: The use of hidden markov modeling to isolate on- and off-task states in reaction time distributions. *Poster presented at the International Society for Research in Child and Adolescent Psychopathology Conference in Los Angeles, CA.*
19. *Del Campo, A., *Gomez, P., *Griffin, C., *Hernandez, G., *Michel, M., *Meijias F., A., *Morey, A., & **Timmons, A. C.** (April 2019). Couples' language use and vocal pitch during everyday relationship distress: Links with dating aggression. *Poster presented at the FIU Conference for Undergraduate Research in Miami, FL.*
20. *Estafanous, M., Reyes, S., Kwan, C., Han, S. C., *Kim, Y., *Pettit, C., Sichko, S., Timmons, A. C., & Margolin, G. (April 2019). Speaking sweet nothings: How syntax words relate to couple closeness. *Poster presented at the USC Undergraduate Research Symposium in Los Angeles, CA.*
21. Han, S. C., *Kim, Y., **Timmons, A. C.**, Sichko, S., *Pettit, C., *Barrett, S., & Margolin G. (March 2019). Family-of-origin aggression and the expression of anger words in daily life among young adult dating couples. *Poster presented at the International Convention of Psychological Science in Paris, France.*
22. **Timmons, A. C.** (June 2018). The development of an mHealth infrastructure for child and family therapy. *Poster presented at the mHealth Technology Showcase for Health Research at the National Institute of Health in Bethesda, MD.*
23. *Barrett, S., Lane, A., Han, S., C. *Kim, Y., *Shin, O., *Pettit, C., **Timmons, A. C.**, & Margolin, G. (May 2018). Do men and women speak the same language? Everyday word use in relation to

self-reported mood and depressive symptoms. *Poster presented at the Association for Psychological Science Conference in San Francisco, CA.*

24. *Shin, O., *Haque, A., *Estafanous, M., Han, S. C., **Timmons, A. C.**, & Margolin, G. (November 2017). Parent-to-child aggression moderates the relationship between feelings of closeness and couples' sleep concordance in daily life. *Poster presented at the International Society for Traumatic Stress Studies Conference in Chicago, IL.*
25. **Timmons, A. C.**, Chaspari, T., Han, S. C., *Kim, Y., Narayanan, S., & Margolin, G. (June 2017). The detection and prediction of couple conflict using mobile sensing technologies. *Poster presented at the Society for Ambulatory Assessment Conference in Luxembourg, Luxembourg.*
26. **Timmons, A. C.**, Chaspari, T., Han, S. C., *Kim, Y., Narayanan, S., & Margolin, G. (April 2017). Using machine learning to automatically detect couple conflict in daily life. *Poster presented at the USC Big Data and Human Behavior Symposium in Los Angeles, CA.*
27. Chaspari, T., Han, S. C., Bone, D., **Timmons, A. C.**, *Perrone, L., Margolin, G., & Narayanan, S. (April 2017). Quantifying regulation mechanisms in dating couples through a dynamical systems model of acoustic and physiological arousal. *Poster presented at the USC Big Data and Human Behavior Symposium in Los Angeles, CA.*
28. Han, S. C., **Timmons, A. C.**, *Kim, Y., Rasmussen, H. F., Chaspari, T., *Bisla, R., *Estafanous, M., *Rajeev, P., *Salehani, K., *Shin, O., *Perrone, L., & Margolin, G. (April 2017). Parent-to-child aggression and anger words in daily life among young adults. *Poster presented at the Society for Research on Child Development Conference in Austin, TX.*
29. Shapiro, L. S., Margolin, G., **Timmons, A. C.**, Miller, K. F., & Susman, E. J. (April 2017). History of parent-to-youth conflict and attenuated diurnal HPA activity in adolescents. *Poster presented at the Society for Research on Child Development Conference in Austin, TX.*
30. *Shin, O., *Haque, A., *Estafanous, M., Han, S. C., **Timmons, A. C.**, & Margolin, G. (April 2017). Feelings of closeness and couples' concordance in sleep in daily life: Parent-to-child aggression as a moderator. *Poster presented at the USC Undergraduate Research Symposium in , CA.*
31. *Kim, Y., **Timmons, A. C.**, Han, S. C., *Perrone, L., *Haque, A., *Ward, M., & Margolin, G. (May 2016). Rejection sensitivity as a moderator of the association between heart rate variability and everyday relationship distress. *Poster presented at the Association for Psychological Science Conference in Chicago, IL.*
32. *Power, K. A., Han, S. C., **Timmons, A. C.**, *Perrone, L., *Nguyen, J., & Margolin, G. (May 2016). "I" usage in couples' everyday lives: How language relates to relationship functioning. *Poster presented at the Association for Psychological Science Conference in Chicago, IL.*
33. *Vitale, L., **Timmons, A. C.**, Han, S. C., *Perrone, L., *Murphy, M., & Margolin, G. (May 2016). Attachment style, romantic partner presence, and physiological arousal in daily life. *Poster presented at the Association for Psychological Science Conference in Chicago, IL.*
34. *Hee, E., *Shin, O., *Yoon, J., *Haque, A., *Nguyen, J., *Salehani, K., Han, S. C., **Timmons, A. C.**, & Margolin, G. (April 2016). First-person pronoun use: How everyday language is associated with relationship satisfaction. *Poster presented at the USC Undergraduate Research*

Symposium in Los Angeles, CA.

35. Han, S. C., **Timmons, A. C.**, *Perrone, L., & Margolin, G. (November 2015). Traumatic life events and physiological arousal in daily life. *Poster presented at the International Society for Traumatic Stress Studies Conference in New Orleans, LA.*
36. *Perrone, L., **Timmons, A. C.**, Han, S. C., *Vitale, L., & Margolin, G. (November 2015). Victimization and perpetration in couples: Associations between dating violence and electrodermal activity in daily life. *Poster presented at the International Society for Traumatic Stress Studies Conference in New Orleans, LA.*
37. *Rosenberg, S., *Nguyen, J., *Haque, A., *Yang, Y., **Timmons, A. C.**, Han, S. C., & Margolin, G. (April 2015). Patterns of physiological activity associated with dating violence in daily life. *Poster presented at the USC Undergraduate Research Symposium in Los Angeles, CA.*
38. **Timmons, A. C.**, Feng, T., Chaspari, T., Narayanan, S., & Margolin, G. (March 2015). An evaluation of novel methodologies for capturing couple dynamics in the home environment. *Poster presented at the International Convention of Psychological Science in Amsterdam, Netherlands.*
39. **Timmons, A. C.**, Chaspari, T., Narayanan, S., & Margolin, G. (March 2015). The association between family violence history and physiological coregulation in dating relationships. *Poster presented at the Society for Research in Child Development Conference in Philadelphia, PA.*
40. **Timmons, A. C.**, Shapiro, L. S., & Margolin, G. (March 2015). Cortisol reactivity, psychological symptoms, and parent-adolescent linkage in daily moods. *Poster presented at the Society for Research in Child Development Conference in Philadelphia, PA.*
41. Del Piero, L. B., **Timmons, A. C.**, & Margolin, G. (March 2015). Heart rate coregulation in young romantic couples. *Poster presented at the Society for Research in Child Development Conference in Philadelphia, PA.*
42. Kellerman, I., **Timmons, A. C.**, Ramos, M. C., & Margolin, G. (March 2015). Associations between negative mood and peer interactions: A daily diary study. *Poster presented at the Society for Research in Child Development Conference in Philadelphia, PA.*
43. Miller, K. F., Shapiro, L. S., **Timmons, A. C.**, & Margolin, G. (March 2015). Parent and peer relationships moderate the association between adolescent depressive symptoms and HPA dysregulation. *Poster presented at the Society for Research in Child Development Conference in Philadelphia, PA.*
44. Shapiro, L. S., Margolin, G., **Timmons, A. C.**, Miller, K. F., & Susman, E. J. (March 2015). Risk-taking in adolescence: An investigation of diurnal cortisol in relation to daily and previous-year risky behaviors. *Poster presented at the Society for Research in Child Development Conference in Philadelphia, PA.*
45. Arbel, R., Shapiro, L. S., Kellerman, I., Ramos, M. C., **Timmons, A. C.**, & Margolin, G. (March 2015). Daily worries and fluctuations in adolescents' diurnal HPA patterns: The moderating role of depressive symptoms. *Poster presented at the Society for Research in Child Development Conference in Philadelphia, PA.*

46. **Timmons, A. C.**, & Margolin, G. (March 2014). Covariation of mood in parent-adolescent dyads and its links with depressive symptoms. *Poster presented at the Society for Research on Adolescence Conference in Austin, TX.*
47. Kellerman, I., **Timmons, A. C.**, Ramos, M. C., Borofsky, L., & Margolin, G. (March 2014). Using daily diary data to test temporal associations between negative mood and overeating among adolescents. *Poster presented at the Society for Research on Adolescence Conference in Austin, TX.*
48. Ramos, M., C., **Timmons, A. C.**, Rodriguez, A. J., & Margolin, G. (March 2014). Observed marital conflict and parent-adolescent coalitions during triadic interaction: Links with family violence history and later youth symptoms. *Poster presented at the Society for Research on Adolescence Conference in Austin, TX.*
49. Ramos, M. C., & **Timmons, A. C.**, & Margolin, G. (April 2013). Everyday conflict in multiple family domains: A daily diary study of adolescents. *Poster presented at the Society for Research in Child Development Conference in Seattle, WA.*
50. **Timmons, A. C.** (August 2012). An integrative framework for promoting the interchange between substantive and quantitative research. *Poster presented at the American Psychological Association Conference in Orlando, FL.*
51. **Timmons, A. C.** (July 2012). Testing lagged intraindividual mediation models in a multilevel structural equation modeling framework. *Poster presented at the International Meeting of the Psychometric Society in Lincoln, NE.*
52. **Timmons, A. C.**, & Preacher, K. J. (May 2012). Temporal design considerations for nonlinear data. *Poster presented at the Association of Psychological Science Conference in Chicago, IL.*
53. **Timmons, A. C.**, & Pisciotta, M. (April 2010). The role of gender bias in depression, reassurance-seeking, and interpersonal rejection. *Poster presented at the Midwestern Psychological Association Conference in Chicago, IL.*
54. Bistricky, S., Young, K., O'Hare, A., Stroupe, N., Fitts, A., Schuster, J., **Timmons, A. C.**, Judah, M., Ilardi, S., & Atchley, R. (September 2009). Depression and attention to emotionally valenced words and images: An event-related potentials (ERP) study. *Poster presented at the Society for Research in Psychopathology Conference in Minneapolis, MN.*

Paper and Poster Presentations under Review

- Timmon, A. C.**, Shapiro, L. S., Han, S. C., *Kim, Y., & Margolin, G. (under review). Bidirectional links between instability in adolescents' daily moods and family conflict. In G. Fosco (Chair), Change is all around us: Advancing developmental science through dynamic conceptualizations of family and adolescent functioning. *Symposium under review at the Society for Research on Adolescence Conference in San Diego, CA.*
- Schacter, H. L., *Pettit, C., *Kim, K., *Sichko, S., **Timmons, A. C.**, Chaspari, T., Han, S. C., & Margolin, G. (under review). A matter of the heart: Romantic couple functioning and cardiovascular activity in young adults' everyday lives. *Paper under review at the Society for Research on Adolescence Conference in San Diego, CA.*

STATISTICAL CONSULTING

- 2018-present **FIU Psychology Department and CCF**
Provide weekly office hours for ongoing statistical consulting for graduate students in the psychology department and CCF
- 2012-13 **USC Graduate Consultation and Computer Center (GC3)**
Provided statistical consulting for faculty and graduate students in the psychology department
- 2010-11 **KU Center for Research Methods and Data Analysis (CRMDA)**
Provided statistical consulting for faculty and graduate students in the College of Liberal Arts and Sciences
- 2010, 11 **KU Summer Institute in Statistics (Stats Camp)**
Provided statistical consulting for faculty and graduate students during a series of week-long workshops

MENTORSHIP AND TEACHING

Mentorship

- 2014-2018 **FIU TIES Lab**
Mentoring research assistants, conducting weekly meetings, advising research assistants preparing posters for national conferences and the FIU Conference for Undergraduate Research, helping research assistants obtain funding and awards to support their involvement in research
- 2014-2018 **USC Couple Mobile Sensing Project**
Mentoring research assistants, conducting weekly meetings, advising research assistants preparing posters for national conferences and the USC Undergraduate Research Symposium, helping research assistants obtain funding and awards to support their involvement in research

Courses

- Expected spring 2019 **Data Sciences for the Social Sciences**
FIU Instructor
Instructor for graduate-level quantitative course on data science methods for social and behavioral scientists, including ambulatory assessment, intensive longitudinal data analysis, and supervised and unsupervised machine learning techniques (neural networks, decision trees, support vector machines, etc.)
- Fall 2018 **Senior Seminar in Psychology: Childhood Trauma and Adversity**
Fall 2019 FIU Instructor
Instructor for special topics undergraduate course focusing on childhood adversity and trauma and professional development for graduating students (approximately 50 students)

Fall 2018 overall student rating of instructor: 4.8/5

Fall 2016
Winter 2017

Introductory Psychology

University of California, Los Angeles, (UCLA) Extension Instructor

Instructor for undergraduate on-campus continuing education program (approximately 30 students)

Fall 2016 overall student rating of instructor: 8.9/9.0

Winter 2017 overall student rating of instructor: 8.9/9.0

Spring 2013

Introduction to Statistics with Lab Section

USC Teaching Assistant

Taught lab on programming in R (approximately 20 students)

Spring 2013 overall student rating of teaching assistant: 4.9/5.0

Fall 2012

Psychology of Marriage and Family

USC Teaching Assistant

Graded assignments, held office hours, and met with students (approximately 100 students)

Quantitative Workshops

Timmons, A. C. (November 2013). An introduction to data analysis in Mplus. *Workshop, GC3, Department of Psychology, USC, Los Angeles, CA.*

Timmons, A. C. (October 2013, May 2013). Methods for dealing with missing data. *Workshop, GC3, Department of Psychology, USC, Los Angeles, CA.*

Invited Talks

Timmons, A. C. (October 2019). Machine learning models of interpersonal functioning in daily life. *Invited Talk, Department of Psychology, University of Massachusetts, Amherst, MA.*

Timmons, A. C. (October 2018). The automatized detection of interpersonal functioning in daily life using mobile sensing and machine learning technologies. *Invited Talk, Department of Computer Science, Texas A&M University, College Station, TX.*

Timmons, A. C., & Ahle, M. W. (May 2018). mHealth: Ambulatory assessment in psychological research. *Invited Talk, FIU CCF, Miami, FL.*

Guest Lectures and Other Talks

Timmons, A. C. (March 2019). Technology and machine learning applications for mHealth Research. *Guest Lecture, Developmental Research Methods (graduate course), Department of Psychology, FIU, Miami, FL.*

Timmons, A. C. (November 2016). Using psychophysiological measures in daily life to automatically detect instances of relationship conflict. *Guest Lecture, Psychophysiology (undergraduate course), Department of Psychology, USC, Los Angeles, CA.*

Timmons, A. C. (November 2015). Dating aggression and physiology in romantic partners' everyday lives. *Guest Lecture, Health Psychology (undergraduate course), Department of Psychology,*

USC, Los Angeles, CA.

Timmons, A. C. (October 2015). Ambulatory physiological measurement of electrodermal activity in dating couples. *Guest Lecture, Understanding Emotions (undergraduate course), Department of Psychology, USC, Los Angeles, CA.*

Timmons, A.C. (April 2015). Measuring electrodermal activity and heart rate in dating couples in their daily lives. *Guest Lecture, Psychophysiology (graduate course), Department of Psychology, USC, Los Angeles, CA.*

Timmons, A. C. (November 2014). Physiological connectedness in young adult dating pairs: Connections to family-of-origin aggression and dating aggression. *Guest Lecture, Understanding Emotions (undergraduate course), Department of Psychology, USC, Los Angeles, CA.*

Timmons, A. C. (November 2013). An introduction to couples' therapy. *Guest Lecture, Psychology of Marriage and Family (undergraduate course), Department of Psychology, USC, Los Angeles, CA.*

Preacher, K. J., & **Timmons, A. C.** (November 2013). Choosing repeated measurement occasions to minimize bias and maximize efficiency. *Talk, Department of Psychology, University of Notre Dame, South Bend, IN.*

Preacher, K. J., & **Timmons, A. C.** (November 2013). Choosing repeated measurement occasions to minimize bias and maximize efficiency. *Talk, Department of Psychology & Human Development, Vanderbilt University, Nashville, TN.*

PROFESSIONAL SERVICE

Extramural Service

Expected 2019 2015, 16	Task force member, APA Society of Clinical Psychology (Division 12) Task Force on Technology and Mental Health Reviewer, APAGS Basic Psychological Science Research Grant
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Intramural Service

2019	Judge, FIU Conference for Undergraduate Research
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Journal Reviews

2019	<i>Psychophysiology</i>
2019	<i>Child Development</i>
2019	<i>Stress</i>
2018	<i>Psychoneuroendocrinology</i>
2018	<i>Behavior Therapy</i>
2017	<i>Journal of Adolescence</i>
2017	<i>Family Process</i>
2016, 17	<i>Psychological Science</i>
2016	<i>Physiology and Behavior</i>
2016	<i>Journal of Social and Personal Relationships</i>

2013, 15, 17, 18
2012

Journal of Family Psychology
Interpersonal Relationships

Other Service Positions

2012 Student Representative for the Clinical Science Area
2011 University of Kansas Honors Program Student Advisor
2010-11 Editorial Assistant for *Cognitive Therapy and Research*
2009-10 Interim Volunteer Director, Willow Domestic Violence Center

RESEARCH INTERESTS

Social relationships and physiological functioning
Emotion regulation and coregulation in close relationships
Family-of-origin aggression and physiology across development
Exposure to adversity and trauma and child development
Big data, machine learning, intensive longitudinal data analysis
Technology-based adaptive and smart intervention systems

CLINICAL EXPERIENCE

UCSF Medical Center Predoctoral Internship

2017-18

Child Trauma Research Program (CTRP)

Supervisors: Dr. Alicia Lieberman and Dr. Chandra Ghosh Ippen
Administered Child-Parent Psychotherapy to low-income parents and children, ages 2-6, exposed to severe interpersonal trauma

Psychiatric Emergency Services (PES)

Supervisor: Dr. John Harbison
Conducted assessments of uninsured, low-income adults with severe mental illness in psychiatric crises

Psychiatric Inpatient Unit

Supervisor: Dr. Eddie Ong
Provided therapy to hospitalized adults with severe mental illness

UCLA Medical Center Externship

2015-16

Families Overcoming under Stress (FOCUS) Clinical Trial

Supervisors: Dr. Cara Kiff and Dr. Catherine Mogil
Administered preventative tele-health interventions as part of an NIH randomized control trial for military families with children ages 3 to 6

Stress, Trauma, and Resilience (STAR) Clinic

Supervisors: Dr. Catherine Mogil and Dr. Patricia Lester
Administered FOCUS for families and FOCUS Couples' Resiliency Training to children, families, and couples exposed to trauma

Family Development Project (FDP)

Supervisors: Dr. Catherine Mogil and Dr. Lauren Spies Shapiro
Administered attachment-based interventions to mothers of infants in the neonatal intensive care unit, attended psychosocial rounds

Parenting Workshop for Military Families, Long Beach VA

Supervisors: Dr. Cara Kiff and Dr. Catherine Mogil
Co-facilitated a parent training workshop for military families

Other Extramural Practicums

2014-15

Immaculate Conception School

Supervisor: Dr. Louise Macbeth

Conducted assessments, provided Cognitive Behavioral Therapy and Acceptance and Commitment Therapy to 6-12 year olds

2012

Harbor-UCLA Medical Center

Supervisor: Dr. Matthew Wright

Conducted comprehensive neuropsychological assessments with low-income, culturally diverse adults

USC Psychological Services Center Intramural Practicums

2012-16

Child, Family, and Couple Therapy Practicum

Supervisor: Dr. Gayla Margolin

Provided behavioral interventions, Exposure Therapy, Integrative Behavioral Couples Therapy, and Emotion-Focused Therapy

Adult Therapy Practicum

Supervisors: Dr. Shannon Couture and Dr. Steven Lopez

Provided Cognitive Behavior Therapy, Acceptance and Commitment Therapy, Behavioral Activation, and Exposure and Response Prevention Therapy for adults with anxiety, depression, and Obsessive-Compulsive Disorder

Social Anxiety Group

Supervisor: Dr. Vivian Credidio

Administered group-based Cognitive Behavioral Therapy and Exposure Therapy for adults with social anxiety

MEDIA COVERAGE

Artificial Intelligence, Technology, and Relationship Functioning

2019

APA Monitor on Psychology

<https://www.apa.org/monitor/2019/07-08/moving-assessment>

2018

BBC Future

<http://www.bbc.com/future/story/20190111-artificial-intelligence-can-predict-a-relationships-future>

- 2017 **IEEE Computer Recorded Interview**
<https://www.youtube.com/watch?v=n8Ap3Z44ojQ&feature=youtu.be>
- 2017 **IEEE Spectrum**
<http://spectrum.ieee.org/the-human-os/robotics/artificial-intelligence/algorithm-aims-to-predict-bickering-among-couples>
- 2017 **TechCrunch**
<https://techcrunch.com/2017/04/21/using-wearable-technology-to-detect-conflict-in-couples-before-it-occurs/>
- 2017 **CNET**
<https://www.cnet.com/news/wearable-warns-you-when-you-and-your-lover-are-about-to-fight/>
- 2017 **Digital Trends**
<http://www.digitaltrends.com/cool-tech/ai-app-couples-fighting/>
- 2017 **NBC**
<http://www.nbcnews.com/mach/technology/mood-recognizing-algorithm-just-might-save-your-relationship-n751536>
- 2017 **Yahoo News**
<https://www.yahoo.com/news/ai-app-knows-couples-fighting-115227187.html>
- 2017 **Daily Mail**
<http://www.dailymail.co.uk/sciencetech/article-4419004/AI-end-lover-s-quarrel.html>
- 2017 **Refinery29**
<http://www.refinery29.com/2017/04/152074/couples-fights-wearable-device>
- 2017 **Tech News Expert**
<http://technewsexpert.com/ai-app-knows-when-couples-are-fighting-may-someday-predict-and-prevent-conflict/>
- 2017 **USC**
<https://viterbischool.usc.edu/news/2017/04/monitoring-troubles-heart/>
- 2017 **Sabato Portuguese Magazine**
<https://www.sabado.pt/vida/detalhe/a-app-que-preve-e-evita-conflitos-entre-casais>
- 2017 **Frankfurter Allgemeine Sonntagszeitung German Newspaper**
Newspaper article published (April 23, 2017 on page 21)
- 2017 **National German Public Radio Recorded Interview**

Recorded radio interview aired in Germany in April 2017

Family and Relationship Functioning

- 2019 **Wall Street Journal**
https://www.wsj.com/articles/when-stress-at-work-creates-drama-at-home-11563183015?mod=hp_lead_pos11
- 2015 **Yahoo News**
<https://www.yahoo.com/news/conflicts-home-affect-teens-school-vice-versa-150900738.html?ref=gs>
- 2015 **Reuters**
<http://www.reuters.com/article/2014/10/31/us-health-psychology-teendevlopment-idUSKBN0IK1NM20141031>
- 2015 **Society for Research on Adolescence**
<http://www.s-r-a.org/new-science/2015-01-15-news-flash-spillover-effects-adolescent-parent-conflict-and-school-problems-d>
- 2016 **Child and Family Blog**
<https://www.childandfamilyblog.com/child-development/aggression-biological-children/>

PROFESSIONAL AFFILIATIONS

- 2015-present Society for Ambulatory Assessment
2013-present Society for Research in Child Development
2012, 15 Association for Psychological Science

OTHER EXPERIENCE

- 2009 **Studied Abroad in Paris, France**
[l'Étoile: Centre de Langue et Vie Françaises](#)