

## CURRICULUM VITAE

Adela C. Timmons, Ph.D.

Assistant Professor | Department of Psychology | University of Texas at Austin  
 Director of the Technological Interventions for Ecological Systems (TIES) Lab  
 Founder | Colliga | Digital platform for behavioral science research and translation

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## ACADEMIC APPOINTMENTS

Tenure Track Assistant Professor (2022-present)

Clinical Psychology  
 Department of Psychology  
 University of Texas at Austin

Tenure Track Assistant Professor (2018-2022)

Clinical Science and Quantitative Psychology  
 Center for Children and Families  
 Department of Psychology  
 Florida International University

## EDUCATION

Predoctoral Clinical Psychology Fellow, University of California, San Francisco (2017-2018)

Early Childhood Trauma Specialization  
 Advisor: Alicia F. Lieberman

Ph.D. (Dual Program), University of Southern California (2011-2018)

Clinical Science and Quantitative Psychology  
 Child and Family Track  
 Advisors: Gayla Margolin and John J. McArdle  
 Dissertation: Ambulatory Assessment Methods for Capturing Couple Interactions in Daily Life

M.A., University of Southern California (2011-2013)

Advisors: Dr. Gayla Margolin and Dr. Jack McArdle  
 Thesis: Family Conflict, Negative Mood, and Adolescents' Daily Problems in School

B.A., University of Kansas (2007-2011)

Advisor: Kristopher J. Preacher  
 Major: Psychology (4.0; Highest Distinction; Departmental Honors)  
 Minor: Behavioral Sciences Research Methodology  
 Thesis: The Importance of Temporal Design: How Do Measurement Intervals Affect the Accuracy and Efficiency of Parameters Estimates in Longitudinal Research?

## HONORS AND AWARDS

Association for Psychological Science (APS) Rising Star Award (2026)  
 Selected as one of four UT Austin innovators to watch (Discovery to Impact Annual Report, 2025)  
 UT Austin Orange Jackets Faculty Award (2025)  
 Departmental Nominee for the Josefina Paredes Endowed Teaching Award (2024, 2025)  
 APA Editor's Choice Article, *Emotion* (2023)  
 Cade Prize for Innovation, Fibonacci Finalist (2021)  
 FIU Top Scholar (Junior Faculty with Major Grants) (2020)  
 FIU College of Arts, Sciences, and Education Faculty Award for Research (2020, 2019)  
 USC Innovator Showcase 2<sup>nd</sup> Place (2017)  
 Gerald Davison Award for Scientific Writing (2017)

KU Psychology Honors Thesis Poster Award for Best Quantitative Methods (2011)

## **GRANTS AND FELLOWSHIPS**

*Total Principal Investigator (PI) funding (past and current): > \$7.8 million in NIH and NSF awards*

### **Sponsored Research Funding – PI**

#### NIHM Commercialization Readiness Pilot Program (2025-2027)

Sponsor: National Institute of Mental Health

PIs: **Timmons, A. C.**, Ahle, M. W., & Comer, J. S. (Multi-PI)

Project Title: A Centralized Clinical Research Tool for Accelerating the Development, Evaluation, and Dissemination of Expert-Developed, Evidence-Based, and AI-Enhanced Digital Mental Health Therapies

Total Cost: \$4,071,227

#### NIMH Supplement Award (2023-2025)

Sponsor: National Institute of Mental Health

PIs: **Timmons, A. C.**, Ahle, M. W., & Comer, J. S. (Multi-PI)

Title: Supplement to the Development and Systematic Evaluation of a Just-in-Time Adaptive Intervention for Improving Child Mental Health

Total Cost: \$357,469

#### NIMH Supplement Award (2022-2025)

Sponsor: National Institute of Mental Health

PIs: **Timmons, A. C.**, Ahle, M. W., & Comer, J. S. (Multi-PI)

Title: Supplement to the Development and Systematic Evaluation of a Just-in-Time Adaptive Intervention for Improving Child Mental Health

Total Cost: \$142,842

#### APPIC Call to Action on Tele-Supervision and Tele-Health (2021)

Sponsor: Association of Psychology Postdoctoral and Internship Centers

PIs: **Timmons, A. C.**, Comer, J. S., & Bagner, D. M. (Multi-PI)

Title: The Development of a Formalized Training Program in Digital Mental Health

Total Cost: \$5,000

#### NIMH Small Business Innovation Research Grant (2020-2025)

Sponsor: National Institute of Mental Health

PIs: **Timmons, A. C.**, Ahle, M. W., & Comer, J. S. (Multi-PI)

Title: The Development and Systematic Evaluation of a Just-in-Time Adaptive Intervention for Improving Child Mental Health

Total Cost: \$3,104,833 (Totaling \$3,605,144 including supplements listed above)

#### NSF Innovation Corps Program Grant (2018-2020)

Sponsor: National Science Foundation

PI: **Timmons, A. C.**

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

Total Cost: \$50,000

#### NSF Graduate Research Fellowship Program Fellowship (2012-2015)

Sponsor: National Science Foundation

PI: **Timmons, A. C.**

Title: The Psychobiological Covariation of Electrodermal Activity between Dating Pairs in Early Adulthood and its Links with Parent-Child Relationships

Total Cost: \$132,000

### **Sponsored Research Funding – Other Key Roles**

#### NIMH F31 Individual Predoctoral Fellowship National Research Service Award (2026-2028)

Sponsor: National Institute of Mental Health

PIs: Walters, S. N.

Title: The Shape of Family Conflict: Differentiating Adaptive and Maladaptive Parent-Child Conflict in Daily Life

Total Cost: \$111,294

NIMH R34 Exploratory Research Grant (2022-2025)

Sponsor: National Institute of Mental Health

PIs: Merrill, B. M.

Title: Personalizing Behavioral Parent Training: Improving Reach and Outcomes for Families of Children with ADHD

Total Cost: \$663,750

NICHD F31 Individual Predoctoral Fellowship National Research Service Award (2021-2023)

Sponsor: National Institute of Child Health and Human Development

PI: Cristello, J.

Title: Identifying Drug and Alcohol Displays on Social Media Using a Machine Learning Approach and Mechanisms that Impact Adolescent Substance Use

Total Cost: \$73,654

NICHD F31 Individual Predoctoral Fellowship National Research Service Award (2019-2021)

Sponsor: National Institute of Child Health and Human Development

PIs: Acosta, J.

Title: Examining the Influence of Parenting Practices on Youth's Sleep during a Sensitive Developmental Period

Total Cost: \$79,903

**Gifts and Other External Awards or Contracts**

APA Dissertation Award (2015)

Sponsor: American Psychological Association

PI: **Timmons, A. C.**

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

Total Cost: \$1,000

**Internal Research Funding – PI**

UT Austin Texas Health Catalyst Award (2024)

Sponsor: University of Texas at Austin Texas Health Catalyst

PI: **Timmons, A. C.**

Title: A Point-and-Click Digital Therapy Creator Tool

Total cost: \$6,000

**Internal Research Funding – Other Key Roles**

FIU Psychology Department Seed Award (2021)

Sponsor: Florida International University

PI: Walters, S. N.

Title: Parenting in the Context of Adversity: Parenting Practices as a Moderator of the Link between Early Exposure to Adversity and Child Mental Health Symptoms

Total Cost: \$2,000

FIU Psychology Department Seed Award (2020)

Sponsor: Florida International University

PI: Duong, J. B.

Title: Assessing mHealth Implementation Research

Total Cost: \$2,000

USC Wallis Annenberg Endowed Fellowship (2011, 2016)

Sponsor: University of Southern California

PI: **Timmons, A. C.**

Description: Fellowship for doctoral students studying women, families, and threats to their well-being  
 Total Cost: \$130,000

## PUBLICATIONS

\* = Relative Citation Ratio (RCR)  $\geq$  80<sup>th</sup> %ile of published articles

‡ =  $\geq$ 100 citations (Google Scholar, as of March 2026)

\_ = Undergraduate, post-baccalaureate, doctoral mentee, or doctoral statistical consultee

† = Corresponding or senior author

### Peer Reviewed Journal Articles

1. de Barbaro, K., Madden-Rusnak, A., & **Timmons, A. C.** (2026). Thinking critically about algorithms for automated detection of behavior: 11 guidelines for developmental researchers. *Developmental Science*, 29, e70144. 10.1111/desc.70144.
2. Carta, K. E., Jumonville, G. A., Duong, J. B., Walters, S. N., Carrasco, A. S., Romero, D. N., Khurd, I. P., Chaspari, T., Han, S. C., Kim, Y., Narayanan, S., Margolin, G., & †**Timmons, A. C.** (2026). Effects of emotional spillover and exposure to interparental psychological aggression on momentary physiological linkage during naturalistic couple conflicts. *Biological Psychology*. 203, 109191. 10.1016/j.biopsycho.2026.109191.
3. Duong, J. B., Simo Fiallo, N., Walters, S. N., Carta, K. E., Jumonville, G. A., Carrasco, A. S., Romero, D. N., Khurd, I. P., Ahle, M. W., Comer, J. S., Frazier, S. L., Chaspari, T., Narayanan, S., & †**Timmons, A. C.** (2025). Caregiver perceptions of healthcare barriers across traditional and digital contexts: A mixed-methods analysis. *npj Digital Medicine*, 8, 772. 10.1038/s41746-025-02131-x.
4. †**Timmons, A. C.**, Tutul, A. A., Avramidis, K., Duong, J. B., Carta, K. E., Walters, S. N., Jumonville, G. A., Carrasco, A. S., Freitag, G. F., Romero, D. N., Ahle, M. W., Comer, J. S., Narayanan, S., Khurd, I. P., & Chaspari, T. (2025). Developing personalized algorithms for sensing mental health symptoms in daily life. *npj Mental Health Research*, 4, 34. 10.1038/s44184-025-00147-5.
5. †**Timmons, A. C.**, Duong, J. B., Walters, S. N., Carta, K. E., Jumonville, G. A., Carrasco, A. S., Romero, D. N., Ahle, M. W., Comer, J. S., Khurd, I. P., & Chaspari, T. (2025). Bridging fair-aware artificial intelligence and co-creation for equitable mental health. *Nature Reviews Psychology*, 4, 793-807. 10.1038/s44159-025-00491-5.
6. Jusko, M. L., Smith, J. N., Campey, M., **Timmons, A. C.**, Morrow, A. S., Lozano, C., Fosco, W. D., Little, K., Villodas, M., & Raiker, J. S. (2025). An application of time series analysis to single case designs in the context of an intensive behavioral intervention for ADHD. *Journal of Attention Disorders*, 29, 832-847. 10.1177/10870547251339546.
7. Ryjova, Y., Gold, A. I., **Timmons, A. C.**, Han, S. C., Chaspari, T., Pettit, C., Kim, Y., Beale, A., Kazmierski, K. F. M., & Margolin, G. (2024). A day in the life: Couples' everyday communication and subsequent relationship outcomes. *Journal of Family Psychology*, 38, 453-465. 10.1037/fam0001180.
8. \*‡†**Timmons, A. C.**, Duong, J. B., Simo Fiallo, N., Lee, T., Vo., P. Q., Ahle, M. W., Comer, J. S., & Chaspari, T. (2023). A call to action on assessing and mitigating bias in artificial intelligence applications in mental health. *Perspectives on Psychological Science*, 18, 1062-1096. 10.1177/17456916221134490. \***RCR = 14.42 (99<sup>th</sup> percentile); ‡299 citations**
9. †**Timmons, A. C.**, Han, S. C., Chaspari, T., Kim, Y., Narayanan, S., Duong, J. B., & Margolin, G. (2023). Relationship satisfaction, feelings of closeness and annoyance, and linkage in electrodermal Activity. *Emotion*. 23, 1815-1828. 10.1037/emo0001201. **APA Editor's Choice Award**
10. Duong, J. B., Simo Fiallo, N., Carta, K. E., Walters, S. N., Han, S. C., Kim, Y., Margolin, G., & †**Timmons, A. C.** (2023). Relationship closeness as a protective factor against the sensitizing effect of adversity history. *Journal of Social and Personal Relationships*, 40, 3752-3780. 10.1177/0265407523118504.
11. Zhao, X., Wu, W., **Timmons, A. C.**, Hayes, T., Wu W., & Frazier, S. L. (2023). Unpacking inequities in

ADHD diagnosis: Examining individual-level race/ethnicity and state-level online information-seeking patterns. *Administration and Policy in Mental Health*, 5, 576-590. 10.1007/s10488-023-01259-w.

12. Morris, S. J., Timmons, A. C., & Musser, E. D. (2023). An individualized, data-driven biological approach to attention-deficit/hyperactivity disorder (ADHD) heterogeneity. *Research on Child and Adolescent Psychopathology*, 51, 1565-1579. 10.1007/s10802-023-01104-6.
13. \*Zhao, X., Coxe, S., Timmons, A. C., & Frazier, S. L. (2022). Mental health information-seeking online: A Google trends analysis of ADHD. *Administration and Policy in Mental Health and Mental Health Services Research*, 61, 130-135. 10.1007/s10488-021-01168-w. **\*RCR = 2.50 (81<sup>st</sup> percentile)**
14. Margolin, G., Daspe, M., **Timmons, A. C.**, Corner, G. W., Pettit, C., Rasmussen, H. F., Chaspari, T., Han, S. C., Arbel, R., Shapiro, L. S., Kazmierski, K. F. M., Del Piero, L., & Schacter, H. L. (2022). What happens when young couples discuss personal loss? Relational, emotional, and physiological impacts. *Journal of Family Psychology*, 36, 863-873. 10.1037/fam0000979/.
15. †**Timmons, A. C.**, Han, S. C., Kim, Y., &, Pettit, C., Perrone, L., Power, K. A., Vitale, L., & Margolin, G. (2021). Fluctuations in pronoun use in everyday life: Understanding couple aggression in context. *Journal of Family Psychology*, 35, 149-159. 10.1037/fam0000699.
16. \*Carl, J. R., Jones, D. J., Lindhiem, O. J., Doss, B. D., Weingardt, K. R., **Timmons, A. C.**, & Comer, J. S. (2021). Regulating digital therapeutics for mental health: Opportunities, challenges, and the essential role of psychologists. *British Journal of Clinical Psychology*, 61, 130-135. 10.1111/bjc.12286. **\*RCR = 3.77 (89<sup>th</sup> percentile)**
17. Han, S. C., Schacter, H. L., **Timmons, A. C.**, Kim, Y., Sichko, S., Pettit, C., & Margolin, G. (2021). Feelings of annoyance and spoken anger words in dating couples' daily lives: The role of family-of-origin aggression? *Social Psychological and Personality Science*, 6, 898-907. 10.1177/1948550620958806.
18. Ramos, M. C., Arbel, R., **Timmons, A. C.**, Rodriguez, A. J., & Margolin, G. (2021). Observed parent-adolescent coalitions and family hostilities during family discussions: Associations with marital aggression. *Family Process*, 61, 1305-1321. 10.1111/famp.12719.
19. Han, S. C., Baucom, B. R., **Timmons, A. C.**, & Margolin, G. (2021). A systematic review of Respiratory Sinus Arrhythmia in romantic relationships. *Family Process*, 60, 441-446. 10.1111/famp.12644.
20. Han, S. C., Schacter, H. L., **Timmons, A. C.**, Kim, Y., Pettit, C., Chaspari, T., Narayanan, S., & Margolin, G. (2021). Romantic partner presence and physiological responses in daily life: Attachment style as a moderator. *Biological Psychology*, 161. 10.1016/j.biopsycho.2021.108082.
21. Gupta, K., Gujral, A., Chaspari, T., **Timmons, A. C.**, Han, S. C., Kim, Y., Barrett, S., Sichko, S., & Margolin, G. (2020). Sub-population-specific machine learning models of couples' interpersonal conflict. *Association for Computing Machinery Transactions of Internet Technology*, 20, 1-20. 10.1145/3372045.
22. Schacter, H. L., Pettit, C., Kim, Y., Sichko, S., **Timmons, A. C.**, Chaspari, T., Han, S. C., & Margolin, G. (2020). A matter of the heart: Daytime relationship functioning and overnight heart rate in young dating couples. *Annals of Behavioral Medicine*, 54, 794-803. 10.1093/abm/kaa019.
23. †**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 and Behavior*, 206, 85-92. 10.1016/j.physbeh.2019.03.020.
24. Comer, J. S., & **Timmons, A. C.** (2019). The other side of the coin: Computer-mediated interactions may afford opportunities for enhanced empathy in clinical practice. *Clinical Psychology: Science and Practice*, 26, e12308. 10.1111/cpsp.12308.
25. 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. 10.1111/cpsp.12297.
26. 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. 10.1002/dev.21829.

27. 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. 10.1007/s10896-019-00041-7.
28. 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*, 36, 1674-1694. 10.1177/0265407518770267.
29. †**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. 10.1109/MC.2017.83.
30. †**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. 10.1177/1948550617709115.
31. ††**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. 10.1037/fam0000227. †**127 citations**
32. 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. 10.1111/cdep.12156.
33. 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. 10.1016/j.jadohealth.2017.01.007.
34. 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. 10.1111/jora.12250.
35. \*††**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. 10.1037/fam0000115. \***RCR = 7.46 (96<sup>th</sup> percentile); †375 citations**
36. \*††**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. 10.1111/cdev.12300. \***RCR = 3.57 (88<sup>th</sup> percentile); †158 citations**
37. ††**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. 10.1080/00273171.2014.961056. †**113 citations**
38. 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. 10.1037/a0036817.

#### **Peer-Reviewed Archival Conference Publications (Engineering and Computer Science)**

39. 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. 10.1145/3242969.3243007.
40. 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. 10.1109/ACII.2017.8273611.

41. 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. 10.1109/ICASSP.2017.7952707.
42. 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 AAAI Spring Symposium Series*, 343-344. <https://cdn.aaai.org/ocs/12763/12763-56168-1-PB.pdf>
43. 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 Conference on Acoustics, Speech, and Signal Processing*, 817-821. 10.1109/ICASSP.2015.7178083.

### **Book Chapters**

44. Horn, A. & **Timmons, A. C.** (2023). Mobile sensing in relationship research. In M. R. Mehl, M. Eid, C. Wrutz, & G. Harari. *Mobile Sensing in Psychology: Methods and Applications* (17 pages; pp. 525-541). New York, NY: Guilford Press.
45. 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. *Smart Data: State-of-the-Art Perspectives in Computing and Applications* (16 pages; pp. 243-258). Boca Raton, FL: CRC Press, Taylor & Francis Group. 10.1201/9780429507670.

### **Journal Articles under Peer Review**

1. †**Timmons, A. C.**, Feng, K., Duong, J. B., Carta, K. E., Walters, S. N., Jumonville, G. A., Carrasco, A. S., Freitag, G. F., Romero, D. N., Margolin, G., Narayanan, S., Comer, J. S., Ahle, M. W., Khurd, I. P., & Chaspari, T. (revise and resubmit; 2026). Algorithmic bias in mobile sensing: Lessons from a real-world mental health case study. *JMIR Human Factors*.
2. Walters, S. N., Duong, J. B., Carta, K. E., Jumonville, G. A., Carrasco, A. S., Romero, D. N., Ahle, M. W., Chaspari, T., Narayanan, S., Comer, J. S., & †**Timmons, A. C.** (revise and resubmit; 2025). How context shapes parenting's role in mitigating adversity: An examination of multisystemic effects. *Journal of Child and Family Studies*.
3. Gold, A., Ryjova, Y., Woodward, D., Kazmierski, K. F. M., Beale, A. M., **Timmons, A. C.**, Han, S. C., Chaspari, T., Pettit, C., Kim, Y., & Margolin, G. (under review; 2025). Implications of individual mental health and mood for dyadic communication in daily life.
4. Rueppel, M., Brenda, M.S., Eisenberg, A.C., **Timmons, A.C.**, & Roy, A.K. (under review; 2025). Daily dynamics of child emotional outbursts and maternal mood, self-efficacy, and executive functioning.

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## **PRESENTATIONS**

### **Invited Talks and Panels**

1. †**Timmons, A. C.** (December 2025). Building smarter parenting supports: An AI toolkit for families and clinicians. *Invited online talk at the Cross-Cultural Consortium on Irritability (C3I)*.
2. †**Timmons, A. C.** (December 2025). Smarter interventions for stronger families and the TIES parenting program. *Invited online talk at Boston University, Mobile and Electronic Health Research Collaborative, AI Research Innovation Core*.
3. †**Timmons, A. C.** (June 2025). Adaptive AI models for personalized interventions through smartphones. *Invited online talk at Microsoft, AI Research Innovation Core*.
4. †**Timmons, A. C.** (April 2025). AI and technology-based micro-experimental intervention for precision mental health. *Invited talk at the Department of Psychology, University of Southern California, Los Angeles, CA*.

5. Huth, A., **Timmons, A. C. (panelist)**, Watkins, C., & Ekker, S. (March 2025). Health tech with a pulse: Human-centered healthcare innovations at UT Austin. *Invited panel at The Life Sciences and Healthcare Innovation Summit, The University of Texas at Austin, Austin, TX.*
6. †**Timmons, A. C.** (November 2024). An AI-assisted platform for increasing the reach and impact of mental health care. *Invited talk at the Dean's Advisory Council Meeting, The University of Texas at Austin, Austin, TX.*
7. †**Timmons, A. C.** (September 2024). An AI-assisted digital parent coaching intervention for kids and families. *Invited talk at the Ambulatory Assessment for Public Health Research Conference, Delmenhorst, Germany.*
8. †**Timmons, A. C.**, Duong, J. B., Carta, K. E., Walters, S. N., Jumonville, G. A., & Carrasco, A. S. (May 2024). Bias in artificial intelligence research in mental health. *Invited talk at the Association for Psychological Science Conference, San Francisco, CA.*
9. †**Timmons, A. C.**, Duong, J. B., Walters, S. N., Carta, K. E., Simo Fiallo, N., & Benamu, D. I. (October 2022). Software development and machine learning models for sensing and fostering child mental health. *Invited talk at the Conference on Advances in Data Science Theory, Methods, and Computation Conference, College Station, TX.*
10. †**Timmons, A. C.**, Duong, J. B., Carta, K. E., Walters, S. N., Simo Fiallo, N., & Lee, T. (May 2022). Data collection tools for digital mental health research. In R. Botvinik-Nezer (Chair), Open science projects accelerate rigorous and inclusive psychological research. *Invited symposium at the Association for Psychological Science Conference, Chicago, IL.*
11. †**Timmons, A. C.** (April 2022). Machine learning innovations for the psychological sciences. *Invited online talk at the Department of Psychology, University of Virginia.*
12. †**Timmons, A. C.** (November 2020). Machine learning applications for the detection of psychological states in naturalistic settings. *Invited online talk at the Department of Psychology, Vanderbilt University.*
13. †**Timmons, A. C.** (October 2019). Machine learning models of interpersonal functioning in daily life. *Invited talk at the Department of Psychology, University of Massachusetts, Amherst, MA.*
14. †**Timmons, A. C.** (October 2018). The automatized detection of interpersonal functioning in daily life using mobile sensing and machine learning technologies. *Invited talk at the Department of Computer Science, Texas A&M University, College Station, TX.*
15. †**Timmons, A. C.**, & Ahle, M. W. (May 2018). mHealth: Ambulatory assessment in psychological research. *Invited talk at the Center for Children and Families, Florida International University, Miami, FL.*

### **Conference Symposia and Paper Presentations**

16. Duong, J. B., Walters, S. N., Carta, K. E., Jumonville, G. A., Carrasco, A. S., Romero, D. N., Comer, J. S., Ahle, M. W., Chaspari, T., †**Timmons, A. C.** (May 2025). Leveraging AI and just-in-time-adaptive interventions to improve family mental health using the Colliga App. In Allen, N. (Chair), The future of youth mental health is mobile, digital, wearable, and personalized just-in-time. *Symposium presented at the Society for Research in Child Development Conference, Minneapolis, MN.*
17. †**Timmons, A. C.** (November 2024). Building fair-aware frameworks for mental health: Addressing AI bias and ethical Challenges in digital therapeutics. In Chaspari, T. (Chair), Algorithmic fairness in multimodal machine learning for health informatics. *Symposium presented at the IEEE Biomedical & Health Informatics Conference, Houston, TX.*
18. Jumonville, G. A., Duong, J. B., Walters, S. N., Carta, K. E., Freitag, G. F., Carrasco, A. S., Comer, J. S., Ahle, M. W., Margolin, G., Han, S. C., & †**Timmons, A. C.** (June 2024). Deciphering relationship dynamics: A Comprehensive analysis of emotional tone and F0 range impact on conflict occurrence. In Horn, A. (Chair), Relational processes in daily life: New contributions to ambulatory assessment of mood, conflict, and conversation. *Symposium presented at the Society for Ambulatory Assessment Conference, Ann Arbor, MI.*
19. Carta, K. E., Tutul, A. A., Avramidis, K., Narayanan, S., Ahle, M. W., & †**Timmons, A. C.** (May 2024). Sensing psychological states through AI. In Carta, K. E. (Chair), & †**Timmons, A. C. (Chair)**. Integrating

artificial intelligence in mental health: Bias Mitigation, inclusive tools, and personalized digital interventions. *Symposium presented at the American Psychological Science Conference, San Francisco, CA.*

20. Chaspari, T., Booth, B., Feng, T., Provost, E. M., †**Timmons, A. C.**, Narayanan, S. (October 2023). Special session on trustworthy and responsible data analytics for mental health. *Special session presented at the Biomedical and Health Informatics IEEE Conference, Pittsburgh, PA.*
21. Duong, J. B., Viltz, A., Hendrick, A., Marquez, C., Hornik, O., Zaman, P., Bricken, Z., Carta, K. E., Walters, S. N., Benamu, D. I., Jumonville, G. A., & †**Timmons, A. C.** (November 2023). Examining barriers and support to mHealth utilization via mixed methods approach. In Duong, J. B (Chair), & †**Timmons, A. C. (Chair)**, Breaking down barriers: Bridging evidence-based digital mental health care. *Symposium presented at the Association for Behavioral and Cognitive Therapies Conference, Seattle, WA.*
22. Avramidis, K., Duong, J. B., Carta, K. E., Walters, S. N., Benamu, D. I., Jumonville, G. A., Freitag, G. F., Tutul, A. A., Cabrera, A., Comer, J. S., Chaspari, T., Narayanan, S., & †**Timmons, A. C.** (March 2023). Psychophysiology sensing via wearables to model family well-being. *Paper presented at the Society for Affective Science Conference, Long Beach, CA.*
23. Carta, K. E., Duong, J. B., Simo Fiallo, N., Walters, S. N., Han, S. C., Margolin, G., & †**Timmons, A. C.** (June 2022). Does family-of-origin aggression moderate the relationship between criticism and physiological responses during conflict episodes captured in romantic couples' daily lives? In A. Horn (Chair), Social resources captured in daily life: Ambulatory assessment of intra- and interpersonal regulation of emotions, conflict, and wellbeing over the lifespan. *Symposium presented at the Society for Ambulatory Assessment Virtual Conference.*
24. Hong, H., **Timmons, A. C.**, Hayes, T., Conroy, K., Bagner, D., & Comer, J. S. (November 2021). Leveraging early treatment progress data to detect risk of ultimate PCIT nonresponse. *Paper presented at the Association for Behavioral and Cognitive Therapies Virtual Conference.*
25. Zhao, X., Wu, W., **Timmons, A. C.**, & Frazier, S. L. (November 2021). State variation in online information-seeking about ADHD. In † **Timmons, A.C. (Chair)**, & Zhao, X. (Chair), Geographical disparities in mental health information-seeking and service utilization. *Symposium presented at the Association for Behavioral and Cognitive Therapies Virtual Conference.*
26. †**Timmons, A. C.**, Ahle, M., Duong, J. B., & Comer, J. S. (November 2020). The Technological Interventions for Ecological Systems (TIES) App for remote sensing of mental health. In **Timmons, A. C. (Chair)**, & Zhao, X. (Chair), Outside the traditional clinic: Incorporating data science into the delivery of evidence-based treatment before, during, and after service utilization. *Symposium presented at the Association for Behavioral and Cognitive Therapies Virtual Conference.*
27. Zhao, X., Coxé, S., **Timmons, A. C.**, & Frazier, S. L. (November 2020). Understand and improve seeking and consumption of mental health information online: A simple probe of ADHD and its treatment on Google using time series analyses. In **Timmons, A.C. (Chair)**, & X. Zhao (Chair), Outside the traditional clinic: Incorporating data science into the delivery of evidence-based treatment before, during, and after service utilization. *Symposium presented at the Association for Behavioral and Cognitive Therapies Virtual Conference.*
28. Jusko, M. L., Raiker, J. S., **Timmons, A. C.**, Morrow, A., Lozano, C., Campey, M., & Little, K. (November 2020). Examination of trends in behavioral improvement over the course of a one-year afterschool behavioral intervention using time-series. In **Timmons, A.C., (Chair)** & X. Zhao (Chair), Outside the traditional clinic: Incorporating data science into the delivery of evidence-based treatment before, during, and after service utilization. *Symposium presented at the Association for Behavioral and Cognitive Therapies Virtual Conference.*
29. †**Timmons, A. C.**, Chaspari, T., Han, S. C., Kim, Y., Narayanan, S., & Margolin G. (November 2020). The automatic detection of couple conflict via wearable sensors. In Garcia, D. (Chair), Using technology-facilitated methods to improve understanding of romantic couple interactions. *Symposium presented at the Association for Behavioral and Cognitive Therapies Virtual Conference.*

30. †**Timmons, A. C.**, Shapiro, L. S., Han, S. C., Kim, Y., & Margolin, G. (March 2020). Bidirectional links between instability in adolescents' daily moods and family conflict. In Fosco, G. (Chair), Change is all around us: Advancing developmental science through dynamic conceptualization of family and adolescent functioning. *Symposium accepted at the Society for Research on Adolescence Conference, San Diego, CA.* (conference canceled)
31. Schacter, H. L., Pettit, C., Kim, Y., Sichko, S., **Timmons, A. C.**, Chaspari, T., Han, S. C., & Margolin, G. (March 2020). A matter of the heart: Romantic couple functioning and cardiovascular activity in young adults' everyday lives. In Schacter, H. (Chair), Teens in vivo: Leveraging novel experience sampling methods to study adolescent development in everyday life. *Symposium accepted at the Society for Research on Adolescence Conference, San Diego, CA.* (conference canceled)
32. Han, S. C., Schacter, H. L., **Timmons, A. C.**, & Margolin, G. (March 2020). Romantic partner presence and physiological regulation in daily life. In Han, S. C., (Chair), High-quality romantic relationships and good health: An in-depth look at physiological pathways. *Symposium accepted at the American Psychosomatic Society Conference, Long Beach, CA.* (conference canceled)
33. †**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 Horn, A. (Chair), Natural language use and social processes. *Symposium presented at the Society for Ambulatory Assessment Conference, Syracuse, NY.*
34. †**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 Sun, J. (Chair), Advances in daily life methods. *Symposium presented at the Society for Personality and Social Psychology Conference, Portland, OR.*
35. 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, Las Vegas, NV.*
36. †**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 Katz, L. F. (Chair), Affective processes and emotion regulation in the context of family violence. *Symposium presented at the Society for Research in Child Development Conference, Austin, TX.*
37. †**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 University of Southern California Big Data and Human Behavior Symposium, Los Angeles, CA.*
38. 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 University of Southern California Big Data and Human Behavior Symposium, Los Angeles, CA.*
39. 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, San Diego, CA.*
40. †**Timmons, A. C.**, Margolin, G., & Baucom, B. R. (November 2014). Synchrony in romantic partners' electrodermal activity in the home environment. In Baucom, B. R. (Chair), Ambulatory physiological measurement in couples and families. *Symposium presented at the Association for Behavioral and Cognitive Therapies Conference, Philadelphia, PA.*
41. 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, Philadelphia, PA.*

42. 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 Baucom, B. R. (Chair), Ambulatory physiological measurement in couples and families. *Symposium presented at the Association for Behavioral and Cognitive Therapies Conference, Philadelphia, PA.*
43. †**Timmons, A. C.**, Chaspari, T., Perrone, L., Feng, T., Narayanan, S., & Margolin, G. (June 2015). Dating aggression and physiological connectedness in everyday life. In Plumb, P. L. K. (Chair), Dyadic interactions in daily life. *Symposium presented at the Society of Ambulatory Assessment Conference, State College, PA.*
44. 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 Ramos, M. C. (Chair), Family violence exposure and everyday family interactions: Behavioral, neural, and physiological findings. *Symposium presented at the Association for Psychological Science Conference, San Francisco, CA.*
45. †**Timmons, A. C.**, & Margolin, G. (May 2013). Family conflict, negative mood, and adolescents' daily problems in school. *Paper presented at the University of Southern California Leibovitz Conference, Los Angeles, CA.*
46. †**Timmons, A. C.**, & Margolin, G. (April 2013). Family conflict, negative mood, and adolescents' daily problems in school. In Borelli, J. (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, Seattle, WA.*

### **Departmental and University Talks**

47. †**Timmons, A. C.** (September 2024). The Technological Interventions for Ecological Systems (TIES) Lab. *Talk, Psychiatry and Psychology Research Forum, The University of Texas at Austin, Austin, TX.*
48. †**Timmons, A. C.** (February 2024). Developing and testing efficacious AI-enhanced digital mental health interventions. *Talk, Clinical Area Seminar (CARE), The University of Texas at Austin, Austin, TX.*
49. Duong, J. B., Carta, K. E., Walters, S. N., Benamu, D. I., Jumonville, G. A., Tutul, A. A., Avramidis, K., Freitag, G. F., Narayanan, S., Chaspari, T., Comer, J. S., Ahle, M. W., & †**Timmons A. C.** (April 2023). Using wearable sensors and mobile phones to explore family dynamics: How digital tools are enhancing our understanding of family life. *Talk, Developmental Cognitive Neuroscience Lab, The University of Texas at Austin, Austin, TX.*
50. Duong, J. B., Walters, S. N., Carta, K. E., Benamu, D. I., Jumonville, G. A., & †**Timmons, A. C.** (February 2023). History of adversity impacts emotional reactivity to stress in emerging adulthood: A daily diary study. *Talk, Department of Psychology Developmental Seminar, The University of Texas at Austin, Austin, TX.*
51. 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.*
52. 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.*

### **Innovation Showcases and Demonstrations (Invited and Competitive)**

53. †**Timmons, A. C.** (March 2025). Colliga: Science-based mental health programs. *Discovery to Impact: Life Science Tech Showcase, The University of Texas at Austin, Austin, TX.*
54. †**Timmons, A. C.** (February 2025). Colliga: Empowering scientists to deliver evidence-based and accessible digital tools directly to you. *M-Lab Health Innovation Ecosystem Mitsubishi Lunch, The University of Texas at Austin, Austin, TX.*
55. †**Timmons, A. C.** (July 2024). Colliga: A digital therapeutic creation tool. *Texas Health Catalyst Roundup and Rodeo, The University of Texas at Austin, Austin, TX.*
56. †**Timmons, A. C.** (September 2021). The Colliga App. *Cade Prize for Innovation Fibonacci Finalist (one of*

21 nominees selected in the Southwest Region of the US), Cade Muesum for Creativity and Innovation, Gainesville, FL.

57. †**Timmons, A. C.** (September 2017). Couple Goals. *Innovator Showcase, University of Southern California, Los Angeles, CA.*

### **Posters Presentations (Selected from 80+ Presentations)**

*Selected posters from trainee-led research conducted under my supervision (undergraduate and graduate levels)*

58. Carta, K. E., Walters, S. N., Duong, J. B., Jumonville, G. A., Carrasco, A. S., Romero, D. N., Nguyen, U., Hargrave, C., Pakala, K., Comer, J. S., Chaspari, T., Ahle, M. W., & †Timmons, A. C. (May 2025). Stress phenotypes in parenting: Exploring the role of caregiver stress patterns on child mood in daily life using technology. *Poster presented at the Society for Ambulatory Assessment Conference, Leuven, Belgium*
59. Jumonville, G. A., Carta, K. E., Duong, J.B., Walters, S. N., Carrasco, A. S., Romero, D.N., Ahle, M. W., Margolin, G., Han, S. C., & †Timmons, A. C. (May 2025). Physiological and health implications of relationship quality and positive behaviors during couple conflict. *Poster presented at the Association for Psychological Science Conference, Washington D.C.*
60. Duong, J. B., Javvaji, A., Luevanos, M., Diaz, S. E., Contreras, J., Bernstein, C., Moulai-Khatir, S., Carta, K. E., Walters, S. N., Jumonville, G. A., Carrasco, A. S., Romero, D. N., & †Timmons, A. C. (May 2025). Balancing data collection and family experience: User-centered approaches to digital mental health monitoring. *Poster presented at the Association for Behavioral and Cognitive Therapies Special Interest Group Student Research Symposium.*
61. Carrasco, A. S., Duong, J. B., Carta, K. E., Walters, S. N., Jumonville, G. A., Romero, D. N., Painter, C., Comer, J. S., Ahle, M. W., & †Timmons, A. C. (May 2025). Parent-child co-regulation: How parental acculturation shapes mood synchrony and relationship dynamics. *Poster presented at the Association for Behavioral and Cognitive Therapies Special Interest Group Student Research Symposium.*
62. Duong, J. B., Javvaji, A., Plaia, J., Diaz, S. E., Walters, S. N., Carta, K. E., Jumonville, G. A., Carrasco, A. S., Romero, D. N., Painter, C., & †Timmons, A. C. (September 2024). Family dynamics and user engagement in co-designing a mental health app: A content analysis of satisfaction and technical challenges using ChatGPT. *Poster presented at the NIH Professional Development and Networking Virtual Workshop.*
63. Diaz, S. E., Duong, J. B., Walters, S. N., Carta, K. E., Jumonville, G. A., Carrasco, A. S., Romero, D., Freitag, G. F., Avramidis, K., Tutul, A. A., Ahle, M. W., Narayanan, S., Comer, J. S., Chaspari, T., & †Timmons, A. C. (August 2024). Parental emotional dysregulation and real-time negative emotion: Exploring the role of child presence. *Poster presented the University of Texas at Austin's Summer Undergraduate Research Experience Conference, Austin, TX.*
64. Duong, J. B., Javvaji, A., Plaia, J., Forbes, J., Luevanos, M., Ahmed, Y., Carta, K. E., Walters, S. N., Freitag, G. F., Jumonville, G. A., Carrasco, A. S., Painter, C., Bennet, S., Kehrer, S., Cortina, J., and †Timmons, A. C. (June 2024). Empowering mental well-being: The role of user involvement in shaping therapeutic mobile application features and mental health outcomes. *Poster presented at the Society of Digital Mental Health Virtual Conference.*
65. Carrasco, A. S., Duong, J. B., Carta, K. E., Walters, S. N., Jumonville, G. A., Freitag, G. F., Comer, J. S., Ahle, M. W., †Timmons, A. C. (June 2024). Unraveling parent-child conflict: Using topic modeling to explore co-occurring themes and their relationship to attachment style. *Poster presented at the Society of Digital Mental Health Virtual Conference.*
66. Carrasco, A. S., Duong, J. B., Walters, S. N., Carta, K. E., Jumonville, G. A., Ahle, M. W., Comer, J. S., & †Timmons, A. C. (May 2024). Inter-partner violence and child affective reactivity: The dynamics of parental emotional awareness and impulse control. *Poster presented at the Association for Psychological Science Conference, San Francisco, CA.*
67. Economou, N., Walters, S. N., Duong, J. B., Carta, K. E., Jumonville, G. A., Carrasco, A. S., Freitag, G. F., Avramidis, K., Tutul, A.A., Ahle, M. W., Narayanan, S., Comer, J. S., Chaspari, T., & †Timmons, A. C. (April

- 2024). Threatening adverse childhood experiences and intergenerational parent-child conflict and diminished relationship quality. *Poster presented at the University of Texas at Austin's Honors Psychology Poster Symposium, Austin, TX.*
68. Buhr, N. G., Sheehan, M. K., Duong, J. B., Jumonville, G. A., Carrasco, A. S., Carta, K. E., Walters, S. N., Arvramidis, K., Tutul, A. A., Ahle, M. W., Narayanan, S., Chaspari, T., Comer, J. S., & †**Timmons, A. C.** (November 2023). Parental influences on child behavioral and emotional outcomes: Unraveling the role of emotion regulation, behavioral motivations, and parenting styles. *Poster presented at the Association for Behavioral and Cognitive Therapies Conference, Seattle, WA.* **ABCT Student Poster Award**
  69. Carta, K. E., Duong, J. B., Walters, S. N., Benamu, D. I., Jumonville, G. A., Freitag, G. F., Tutul, A. A., Avramidis, K., Narayanan, S., Chaspari, T., Comer, J. S., Ahle, M. W., & †**Timmons, A. C.** (November 2023). The ripple effects of stress: Using audio coding and intensive data design to understand family stress contagion. *Posted presented at the Association for Behavioral and Cognitive Therapies Conference, Seattle, WA.*
  70. Duong, J. B., Zaman, P., Viltz, A., Bricken, Z., Sheehan, M., Jumonville, G. A., Carrasco, A. S., Lin, J., Buhr, N. G., Carta K. E., Walters, S. N., Simo Fiallo, N., Arvramidis, K., Tutul, A. A., Ahle, M. W., Narayanan, S., Chaspari, T., Comer, J. S., & †**Timmons, A. C.** (August 2023). Using thematic analysis to explore barriers and facilitators to utilization of mHealth tools: Preliminary analysis. *Poster presented at the NIH Supplement Professional Development and Networking Virtual Conference.*
  71. Walters, S. N., Carta, K. E., Duong, J. B., Benamu, D. I., Jumonville, G. A., Freitag, G. F., Avramidis, K., Tutul, A. A., Narayanan, S., Chaspari, T., Comer, J. S., Ahle, M. W., & †**Timmons, A. C.** (May 2023). The use of ecological momentary assessment and at-home audio data to develop family conflict profiles. *Poster presented at the American Psychological Association Conference, Washington, D.C.*
  72. Duong, J. B., Feng, K., Carta, K., E., Walters, S. N., Benamu, D. I., Chaspari, T., Kim, Y., Han, S. C., Margolin, G., & †**Timmons, A. C.** (March 2023). Understanding mental health using multimodal sensing technology and machine learning: A proof-of-concept study. *Poster presented at the Society for Research in Child Development Conference, Salt Lake City, UT.*
  73. Carta, K. E., Walters, S. N., Duong, J. B., Avramidis, K., Benamu, D. I., Tutul, A. A., Freitag, G. F., Simo Fiallo, N., Comer, J. S., Chaspari, T., Narayanan, S., & †**Timmons, A. C.** (October 2022). Using pervasive computing and intensive data design to characterize patterns of emotional regulation. *Poster presented at the Conference on Advances in Data Science Theory, Methods, and Computation at the Texas A&M University Institute for Applied Mathematics and Computational Science, College Station, TX.*
  74. Duong, J. B., Carta, K. E., Walters, S. N., Benamu, D. I., Feng, K., Chaspari, T., Kim, Y., Han, S., Margolin, G., & †**Timmons, A. C.** (October 2022). Using multimodal sensing technology to detect and predict mood states. *Poster presented at the Conference on Advances in Data Science Theory, Methods, and Computation at the Texas A&M University Institute for Applied Mathematics and Computational Science, College Station, TX.*
  75. Walters, S. N., Duong, J. B., Carta, K. E., Simo Fiallo, N., Lee, T., Dominguez, A. M., Taylor, R. J., & †**Timmons, A. C.** (May 2022). Parenting in the context of adversity: Parenting practices as a moderator on the link between early exposure to adversity and child mental health symptoms. *Poster presented at the Association for Psychological Science Conference, Chicago, IL.*
  76. Morey, G., Gomez, P., Gallego E., Lee, T., Ramirez, M., Laguerre, W., Simo Fiallo, N., Del Campo, A., Duong, J. B., Han, S., Margolin, G., & †**Timmons, A. C.** (May 2021). Using ecological momentary assessment to examine couples' tone, communication, and aggression during everyday relationship distress. *Poster presented at the Association for Psychological Science Virtual Conference.* **APS Student Poster Award**
  77. Herrera, G., Dominguez, A. M., Walters, S. N., Simo Fiallo, N., Carta, K. E., Duong, J. B., & †**Timmons, A. C.** (March 2022). Parenting in the context of childhood adversity: Examining the influence of acculturation on the moderation effect of positive parenting. *Poster presented at the FIU Undergraduate Research Conference, Miami, FL.*

*Translational outputs, including software, intellectual property, data infrastructure, and digital interventions developed to support scalable research and implementation*

### **Software**

- †**Timmons, A. C.**, & Ahle, M. A. (2025). Colliga App.  
Mobile application for end users supporting deployment of multiple digital programs.
- †**Timmons, A. C.**, & Ahle, M. A. (2025). Colliga Research Platform.  
Web-based platform supporting research design, data collection, and program deployment.
- †**Timmons, A. C.**, & Ahle, M. A. (2020). Colliga App [Legacy Version].  
Retired Summer 2025.

### **Intellectual Property, Disclosures, and Licenses**

- †**Timmons, A. C.**, Walters, S. N., Duong, J. B., Carta, K. E., Jumonville, G. A., Carrasco, A. S., & Romero, D. N. (2026). The Parenting Toolkit. License agreement executed with UT Austin.
- †**Timmons, A. C.**, & Ahle, M. W. (2020). Colliga Platform.  
License agreement executed with FIU.
- †**Timmons, A. C.**, & Ahle, M. W. (2019). Machine learning algorithms for detecting interpersonal functioning from mobile sensing data. License agreement executed with USC.

### **Data Infrastructure and Open Science Resources**

- †**Timmons, A. C.**, Ahle, M. W., Comer, J. S., Narayanan, S., & Chaspari, T. (2026). The Parenting Toolkit dataset.
- †**Timmons, A. C.**, Ahle, M. W., Comer, J. S., Narayanan, S., & Chaspari, T. (2022). Childhood Mobile Data Project dataset.
- †**Timmons, A. C.**, & Ahle, M. W. (2020). Colliga Data Repository.
- †**Timmons, A. C.**, Han, S. C., & Margolin, G. (2017). Couple Mobile Sensing Project dataset.

### **Digital Behavioral Science Programs**

- †**Timmons, A. C.**, Walters, S. N., Duong, J. B., Carta, K. E., Jumonville, G. A., Carrasco, A. S., & Romero, D. N. (2024). The Parenting Toolkit. Guided parenting program focusing on family functioning and parent-child dynamics.
- Bozoglan, B., & †**Timmons, A. C.** (in preparation; 2026). Burnout Reset.  
Guided program focusing on burnout reduction and recovery.
- Timmons, P. L., & †**Timmons, A. C.** (in preparation; 2026). Assertiveness 101.  
Guided program designed to build and sustain assertiveness skills.
- Timmons, P. L., & †**Timmons, A. C.** (in preparation; 2026). Stress Relief.  
Guided program designed to reduce stress and restore emotional balance.

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## **MEDIA COVERAGE AND PUBLIC SCHOLARSHIP**

### **Selected Media Coverage**

- Wired* (2022). What happens when an AI knows how you feel?
- Wall Street Journal* (2019). When stress at work creates drama at home
- BBC* (2019). How your voice hides clues about your love life
- IEEE Spectrum* (2017). Algorithm aims to predict bickering among couples
- Reuters* (2014). Conflicts at home affect teens at school and vice versa

*OpenMind* (2023). When your psychologist is an AI

*Discover* (2021). Can wearable devices save your relationship?

*The Conversation* (2020). Isolating together is challenging—and relationship stresses can affect biological functioning

*APA Monitor on Psychology* (2019). Moving assessment out of the clinic: Wearables, gaming, virtual reality, and other technologies enable real-world data collection

*TechCrunch* (2017). Using wearable technology to detect conflict in couples before it occurs

*NBC News* (2017). This mood-recognizing algorithm may help predict relationship conflict

*IEEE Computer* (2017). Interview on quality-of-life technologies

### **Public Scholarship**

Doss, B. D., Weingardt, K. R., Lindhiem, O. J., **Timmons, A. C.**, Jones, J. D., Comer, J. S., & Carl, J. R. (2021). Regulation of digital therapeutics: Implications for evaluation, reimbursement, and delivery. *Psychiatric Times*, 38 (digital supplement).

Carl, J. R., Jones, D. J., Lindhiem, O. J., Doss, B. D., Weingardt, K. R., **Timmons, A. C.**, & Comer, J. S. (2020). Digital therapeutics and the medical approval paradigm: Cautions for a new era in mental health care. *The Clinical Psychologist*, 72, 22–24.

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## **TEACHING**

### **Courses Taught (Instructor of Record)**

#### The University of Texas at Austin

PSY 364C Childhood Trauma and Adversity (Typically offered Fall semesters; 2022-present)

PSY 371P Applied Data Science (Typically offered Spring semesters; 2023-present)

PSY 357 Undergraduate Research in Psychology (Fall 2022-present)

**Student evaluations of instructor: 4.7-4.9/5.0**

#### Florida International University

PSY 5939 Data Science for the Social Sciences (Spring 2022, Spring 2019)

PSY 4931 Seminar in Childhood Trauma and Adversity (Fall 2018-Fall 2021; Spring 2021)

PSY 5918/4916/4940 Undergraduate Research in Psychology (2018–2022)

**Student evaluations of instructor: 4.7-4.9/5.0**

#### University of California, Los Angeles (Extension Program)

PSYCH XL 10 Introductory Psychology (Fall 2016, Winter 2017)

**Student evaluations of instructor: 8.9/9.0**

### **Teaching Assistant Experience**

#### University of Southern California

Introduction to Statistics with Lab (Spring 2013)

Psychology of Marriage and Family (Fall 2012) (No student evaluations)

**Student evaluations of instructor: 4.9/5.0**

### **Selected Workshops and Guest Lectures**

†**Timmons, A. C.** (November 2022). Using mobile sensing technology to capture naturalistic behavior in couples and families. *Invited Guest Lecture*, Special Interest Group on Computational Natural Behavior, Department of Psychology, The University of Texas at Austin, Austin, TX.

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

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

†**Timmons, A. C.** (November 2013). Couples' therapy. *Invited Guest Lecture*, Psychology of Marriage and Family (undergraduate course), Department of Psychology, University of Southern California, Los Angeles, CA.

†**Timmons, A. C.** (November 2013). An introduction to data analysis in Mplus. *Invited Workshop*, Graduate Consultation and Computer Center, Department of Psychology, University of Southern California, Los Angeles, CA.

†**Timmons, A. C.** (May 2013). Methods for dealing with missing data. *Invited Workshop*, Graduate Consultation and Computer Center, Department of Psychology, University of Southern California, Los Angeles, CA.

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## **MENTORSHIP**

### **Doctoral Students (Primary Advisor)**

Alyssa Carrasco (2025-present)  
 Grace Jumonville (2024-present)  
 Kayla Carta (2021-present)  
 Sierra Walters (2021-present)  
 Jacqueline Duong (2020-present)

### **Lab Coordinators**

Ishita Khurd (2025-present)  
 Daniela Romero (2024-present)  
 Alyssa Carrasco (2023-2025)  
 Grace Jumonville (2022-2023)  
 Dominique Benamu (2022-2023)  
 Natalia Simo Fiallo (2020-2022)

### **Honors Theses**

Sydney Fuller (2025-present)  
 Essie Diaz Perdomo (2025-present)  
 Maria Luevanos (2024-2025)  
 Naomi Economou (2023-2024)  
 Lydia Lovelace (2022-2023)  
 Avery Hendrick (2022-2023)

### **Summer Undergraduate Research Experience Program**

Essie Diaz Perdomo (Summer 2024)  
 Gabrielle Chioma Orji (Summer 2022)

### **Psychology Data Science Internship**

Emma Pedraza (Summer 2025)  
 Phoebe Wang (Summer 2024)  
 Nikhita Ajaykumar (Summer 2023)  
 Logan Kronforst (Summer 2023)

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## **PROFESSIONAL SERVICE**

## **National**

NIH Grant Panel Reviewer, SBIR/STTR Small Business: Biobehavioral Processes (2024)  
NIH Grant Panel Reviewer, Social Psychology, Personality, and Interpersonal Processes (2023)  
APA Division 12 Digital Mental Health Task Force Member (2019-2022)  
SRCD Conference Symposia Reviewer (2019)  
APA Graduate Students Basic Psychological Research Grant Reviewer (2015, 2016)

## **Departmental**

### The University of Texas at Austin

UT Austin Department Search Committee for Assistant Professor Position (Fall 2025)  
Area Seminar in Clinical Psychology (PSY 184E), Seminar Series Coordinator (Rotating faculty role) (Spring 2025)  
UT Austin Y'ALL Research Conference Poster Reviewer (2023)  
UT Austin Department Colloquium Series Committee (2022-present)

### Florida International University

FIU Clinical Science Program Professional Developmental Committee (2020-2022)  
FIU Clinical Science Program Internship Committee (2019-2020)  
FIU Conference for Undergraduate Research Judge (2019)

## **Dissertation Committees**

### Chair

Kayla Carta (2025-present)  
Sierra Walters (2025-present)  
Jacqueline Duong (Chair, 2024-present)

### Member

Rachel Weisenburger (2025-present)  
Poheng Chen (2024-2025)  
Mackenzie Zisser (2022-2025)  
Annabeth Maden Russek (2023-2024)  
Megan Micheletti (2022-2023)  
Natalie Hong (2020-2021)  
Xin Zhao (2020-2021)

## **Master's Thesis Committees**

### Chair

Alyssa Carrasco (Chair, 2024-present)  
Grace Jumonville (Chair, 2024-present)  
Kayla Carta (Chair, 2021-2023)  
Sierra Walters (Chair, 2021-2023)  
Jacqueline Duong (Chair, 2020-2022)

### Member

Anna Beth Madden-Rusnak (2021-2022)  
Karissa DiMarzio (2018-2019)  
Chelsea Dale (2018-2019)

## **Community Service**

Willow Domestic Violence Shelter Interim Volunteer Program Director (2009-2010)

## **Ad Hoc Journal Reviewer (Selected from 20+ Journals)**

*npj Digital Medicine; npj Mental Health; Psychological Science; Child Development; Developmental Science; Journal of Social and Personal Relationships; Advances in Methods and Practices in Psychological Science; Emotion; Psychoneuroendocrinology; Journal of Family Psychology; Behavior Therapy*

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## CLINICAL SUPERVISION

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### FIU Clinical Science Practicum in Digital Mental Health (2021-2022)

Developed and led a specialized doctoral practicum in technology-enabled behavioral science and digital intervention delivery, training clinical scientists in safe, ethical, and effective implementation in clinical care

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## CLINICAL TRAINING

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*Clinical training in evidence-based interventions across inpatient, outpatient, emergency, and family-based settings.*

### UCSF Medical Center Predoctoral Fellowship (2017–2018)

Child Trauma Research Program — Child-Parent Psychotherapy with families exposed to trauma  
 Psychiatric Inpatient Unit — Inpatient psychotherapy with adults with severe mental illness  
 Psychiatric Emergency Services — Crisis assessment with uninsured and high-risk populations

### UCLA Medical Center Predoctoral Externship

Families Overcoming under Stress Trial (2015-2016) — Telehealth intervention delivery in NIH funded RCT  
 Stress, Trauma, and Resilience Clinic (2015-2016) — Therapy with trauma-exposed families and couples  
 Parenting Workshop for Military Families (2015-2016) — Group-based parent training

### Harbor-UCLA Medical Center (2012)

Neuropsychological assessment with under-insured adults

### USC Psychological Services Center

Child, Family, and Couple Therapy Practicum (2012–2013) — CBT, IBCT, EFT  
 Adult Therapy Practicum (2013–2014) — CBT, ACT, ERP  
 School-Based Practicum (2014–2015) — Child and family interventions in school settings

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## OTHER PROFESSIONAL EXPERIENCE

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### Translational and Innovation Training

UT Austin Texas Health Catalyst Accelerator Program (Summer 2024)  
 NSF Innovation Corps (I-Corps) Entrepreneurial Training Program (2018)  
 UCLA-USC NSF Innovation Corps Node Training Program (2017)

### Statistical Consulting Experience

Statistical Consultant, FIU Psychology Department and Center for Children and Families (2018-2022)  
 Statistical Consultant, USC Graduate Consultation and Computer Center (2012-2013)  
 Statistical Consultant, KU Center for Research Methods and Data Analysis (2010-2011)  
 Statistical Consultant, KU Summer Institute in Statistics (2010, 2011)