

Curriculum Vitae Jules K. Wood

Personal Information

Pronouns: They/them/theirs

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161 Hillman Hall
St. Louis, MO 63105

Education

2018-2022 Ph.D., Human Development & Family Studies
The Pennsylvania State University, State College, PA
Dissertation: Do affect dynamics differ by context? An exploration using
timeseries and latent profile modeling
Advisor: Zita Oravec

2015-2018 M.S., Human Development & Family Studies
The Pennsylvania State University, State College, PA
Thesis: Integrating multiple timescales and process models: An illustrative
application to affect dynamics
Thesis advisor: Nilam Ram

2011-2015 B.S., Psychology, *summa cum laude*
University of Minnesota-Twin Cities, Minneapolis, MN
Minors: Mathematics, Statistics

Employment History

2023-present Assistant Research Professor
The Brown School, Sexuality, Health and Gender Center
Washington University in St. Louis, St. Louis, MO

2015-2022 Graduate Research Assistant and/or Teaching Assistant
Department of Human Development and Family Studies
The Pennsylvania State University, State College, PA

2013-2015 Data Manager and Undergraduate Research Assistant
Minnesota Center for Twin and Family Research
University of Minnesota, Minneapolis, MN

SU 2013 Trainee, Alcohol Research Training Summer School
Department of Psychiatry
Washington University in St. Louis, St. Louis, MO

Research Interests

Longitudinal data analysis, LGBTQ+ development, Psychometrics, Bayesian methods, Ecological momentary assessment

Teaching Interests

Undergraduate: Statistics, Research Methods, Introduction to Developmental Psychology, Lifespan Development, LGBTQ+ Development

Graduate: Introductory Statistics, Regression, Multilevel/Hierarchical Modeling, Longitudinal Analysis, Structural Equation Modeling, Introduction to Bayesian Statistics

Peer-Reviewed Publications

Wood, J. K., Oravecz, Z., & Ram, N. (Resubmitted, under review). An application of the multiple timescale Ornstein-Uhlenbeck process model to affect dynamics development. *Psychometrika*.

Nowak, U., **Wood, J. K.**, Dinu, A. N., Wittkamp, M. F., Clamor, A., Oravecz, Z., & Lincoln, T. M. (2022). Are paranoid ideation and hallucination spectrum experiences differently associated with affect dynamics? A continuous-time modelling approach. *Emotion*, advance online publication. <https://doi.org/10.1037/emo0001150>

Li, Y., **Wood, J.**, Ji, L., Chow, S. M., & Oravecz, Z. (2021). Fitting multilevel vector autoregressive models in Stan, JAGS, and Mplus. *Structural Equation Modeling: A Multidisciplinary Journal*, 29, 452-475. <https://doi.org/10.1080/10705511.2021.1911657>

Oravecz, Z., **Wood, J.**, & Ram, N. (2018). On fitting a continuous-time stochastic process model in the Bayesian framework. In K. van Montfort, J. H. L. Oud, & M. C. Voelke (Eds.), *Continuous Time Modeling in the Behavioral and Related Sciences* (pp. 55–78). Springer International Publishing. https://doi.org/10.1007/978-3-319-77219-6_3

Wood, J., Oravecz, Z., Vogel, N., Benson, L., Chow, S. M., Cole, P., Conroy, D. E., Pincus, A. L., & Ram, N. (2017). Modeling Intraindividual Dynamics Using Stochastic Differential Equations: Age Differences in Affect Regulation. *Journal of Gerontology Series B: Social Sciences and Psychological Sciences*, 73, 171-184. <https://doi.org/10.1093/geronb/gbx013>

Conference Presentations

Wood, J.K. (October 2022). Affect Dynamics in Context: A Hierarchical Bayesian AR Model for a Lab-Based Paradigm. Poster presented at the 2022 Society for Multivariate and Experimental Psychology (SMEP Annual Meeting, Monterey, CA. Abstract to be published in *Multivariate Behavioral Research*, 2023.

Mayfield, K. T., **Wood, J. K.**, Fosco, G., & Ram, N. (May 2019). Daily Coparenting Dynamics Are Associated with Changes in Parent Well-Being and Parent-Adolescent Relations. Poster presented at the 31st Annual APS Convention, Washington, DC.

Wood, J. K., Oravecz, Z., & Ram, N. (March 2019). Integrating Multiple Timescales and Process Models: An Illustrative Application of a Multilevel Ornstein-Uhlenbeck Model to Affect Dynamics. Thematic flash talk presented at the 2019 Society for Affective Science Annual Conference, Boston, MA.

Wood, J. K., Oravecz, Z., Conroy, D. E., Pincus, A. L., & Ram, N. (May 2018) Integrating Multiple Timescales and Process Models: An Illustrative Application to Affect Dynamics. Poster presented at the 30th Annual APS Convention, San Francisco, CA

Wood, J. K., Oravecz, Z., Chow, S., Conroy, D., Pincus, A., Cole, P., & Ram, N. (May 2016). Modeling age-related changes in emotion regulation within a hierarchical latent stochastic differential equation framework. Poster presented at the Modern Modeling Methods Conference, Storrs, CT.

Wood, J. K., Keyes, M. A., Iacono, W. G., & McGue, M. (July 2014) Effect of parental smoking on longitudinal smoking outcomes in adopted and nonadopted offspring. Poster presented at the Behavioral Genetics Association 2014 Annual Meeting, Charlottesville, VA

Other Presentations

Wood, J. (March 2021). Modeling Affect Dynamics at Multiple Timescales. Talk presented at QuantDev/Developmental Proseminar Symposium on Self- and Co-Regulation, State College, PA

Wood, J. K., Oravecz, Z., & Ram, N. (April 2019). Integrating Multiple Timescales and Process Models: An Illustrative Application of a Multilevel Ornstein-Uhlenbeck Model to Affect Dynamics. Talk presented at the UMD-PSU Method Mini-Conference, State College, PA.

Wood, J. K., Oravecz, Z., & Ram, N. (April 2019). Integrating Multiple Timescales and Process Models: An Illustrative Application of a Multilevel Ornstein-Uhlenbeck Model to Affect Dynamics. Flash talk presented at the HDFS 3rd Annual Graduate Research Symposium, State College, PA.

Wood, J. K. (April 2018). Integrating Multiple Timescales and Process Models: An Illustrative Application to Affect Dynamics. Flash talk presented at The ABCDs of HDFS: Interdisciplinary Approaches to Individual & Family Development across the Lifespan HDFS Graduate Research Symposium, University Park, PA.

Wood, J. K. (January 2018). Integrating Multiple Timescales and Process Models: An Illustrative Application to Affect Dynamics. Talk presented to the QuantDev Brown Bag Colloquium, University Park, PA.

Wood, J. K. (December 2017). Intraindividual Covariation of Perceived Agentic and Communal Behavior: Application to the Interpersonal Circumplex. Talk presented at the Pennsylvania State University Mini-Conference on Intensive Longitudinal Methods, University Park, PA.

- Wood, J. K.** (May 2017). Expanding to a three-level Ornstein-Uhlenbeck process model for multiple time-scale designs: Some preliminary findings. Talk presented at the Virginia and Pennsylvania Exchange Symposium, Charlottesville, VA.
- Wood, J.** (April 2017). Expanding to a three-level Ornstein-Uhlenbeck model for measurement burst designs. Talk presented to QuantDev Brown Bag Colloquium, University Park, PA
- Wood, J.** (December, 2016). Modeling Intraindividual Dynamics using Stochastic Differential Equations: An Examination of Age-Related Differences in Affect Regulation. Talk presented to the Marrying Methods to Theory Symposium: Penn State HDFS Graduate Student Symposium, University Park, PA.
- Wood, J.** (September, 2016). Modeling Intraindividual Dynamics using Stochastic Differential Equations: An Examination of Age-Related Differences in Affect Regulation. Talk presented to QuantDev Brown Bag Colloquium, University Park, PA
- Wood, J. K., Oravec, Z., Chow, S., Conroy, D., Pincus, A., Cole, P., & Ram, N.** (April 2016). Modeling affective dynamics with stochastic differential equations: An examination of age-related differences. Talk presented at the Pennsylvania State University Mini-Conference on Multivariate/Longitudinal Methods, Pennsylvania State University, University Park, PA

Technical Reports

Web tutorials: Penn State Quantitative Developmental Methods (QuantDev) group
(quantdev.ssri.psu.edu)

Topics covered: Introduction to modeling with ODEs, Introduction to IRT modeling,
Companion tutorials to *Growth Modeling: Structural Equation and Multilevel Modeling Approaches* (addition of lavaan code)

Teaching

SP 2022	<i>Teaching Assistant</i> HDFS 519: Methods of Statistical Analysis in Human Development (Regression)
FA 2021	<i>Teaching Assistant/Lab Section Leader</i> HDFS 312W: Empirical Inquiry in Human Development (Research methods)
SP 2021	<i>Teaching Assistant</i> HDFS 519: Methods of Statistical Analysis in Human Development (Regression)
FA 2020	<i>Instructor</i> HDFS 518: Applied Statistics Laboratory <i>Teaching Assistant</i> HDFS 516: Methods of Research in Human Development (Introductory statistics)
SP 2020	<i>Teaching Assistant</i> HDFS 229: Infant and Child Development HDFS 239: Adolescent Development
FA 2019	<i>Teaching Assistant</i> HDFS 229: Infant and Child Development

SU 2019	HDFS 526: Measurement in Human Development <i>Co-Instructor</i>
SP 2019	HDFS 129: Introduction to Human Development and Family Studies <i>Teaching Assistant</i>
FA 2018	HDFS 129: Introduction to Human Development and Family Studies HDFS 210Z: Ethnicity, Health & Aging <i>Teaching Assistant/Lab Section Leader</i>
SP 2018	HDFS 312W: Empirical Inquiry in Human Development (Research methods) <i>Teaching Assistant</i>
FA 2017	HDFS 490: Introduction to Internship Experience HDFS 250: Gender & Sexuality Identity Over the Lifespan <i>Instructor</i>
SP 2017	HDFS 518: Applied Statistics Laboratory <i>Teaching Assistant</i> HDFS 516: Methods of Research in Human Development (Introductory Statistics)
FA 2016	Teaching Assistant HDFS 428: Infant Development Teaching Assistant HDFS 129: Introduction to Human Development and Family Studies

Other Teaching Activities

HDFS 516: <i>Methods of Research in Human Development</i>	
FA 2022	Guest Lecture: The Legacy of Eugenics in Statistics
FA 2020	Guest Lecture: The Legacy of Eugenics in Statistics
HDFS 129: <i>Introduction to Human Development and Family Studies</i>	
FA 2019	Guest Lecture: Sex and Gender Development
HDFS 526: <i>Measurement in Human Development</i>	
FA 2017	Guest Lecture: Introduction to IRT Modeling in R
FA 2016	Preparation of course materials as R Markdowns

Computer Skills

Statistical software: R (advanced) – base R & tidyverse, SAS, SPSS, JASP, Excel

Specialty programs: JAGS (advanced), BUGS (advanced), Stan, lavaan

Other: LaTeX, Markdown

Other Professional Activities & Service

Fall 2022	<i>Lab manager</i> , Individualized Modeling of Processes in Emotion and Cognition (IMEPC) Lab, Penn State
2019-2020	<i>Member</i> , Society for Affective Science
2019-2020	<i>Graduate Representative</i> , Justice, Equity, Diversity and Inclusion Committee, Penn State HDFS Department/Graduate Steering Committee
2018-2019	<i>Graduate Representative</i> , Programming, Planning, Development & Evaluation Committee, Penn State HDFS Department/Graduate Steering Committee

- 2018-2019 *Member*, American Psychological Society
- 2017-2018 *Community Service Co-Chair*, Penn State HDFS Graduate Steering Committee
- 2017-present *Website Liaison*, Penn State Quantitative Developmental Methods Group
- 2016-2018 *Secretary*, We R Penn State R User's Club
- 2016 *Reviewer*, Journal of Gerontology Series B: Social Science and Psychological Sciences

Scholarships and Awards

- 2022 Society for Multivariate Experimental Psychology Travel Award (\$2000)
- 2022 Harold F. Martin Graduate Assistant Outstanding Teaching Award (\$500),
1 of 9 awarded university-wide
- 2015-2017 University Graduate Fellowship (\$26,000 stipend for two years)
The Graduate School, The Pennsylvania State University
- 2014 BGA Associate Member Travel Fellowship (\$500)
Behavior Genetics Association, to attend Annual Meeting
- 2011-2015 University of Minnesota Gold Scholarship (adjustment to in-state tuition, worth
~\$23,245 over four years)
University of Minnesota
- 2011-2015 Benson Family Scholarship (\$6,000/year for four years)
Benson Family Foundation, Minnesota
- 2011 National Merit Commended Scholar