David J. Schlueter

CONTACT INFORMATION	2525 West End Avenue Nashville, TN 37203	248-303-2411 david.j.schlueter@vanderbilt.edu

RESEARCH INTERESTS

Bayesian statistics, multivariate survival analysis, machine learning

EDUCATION AND TRAINING

Vanderbilt University (VU) — Nashville, TN

Ph.D., Biostatistics, *Expected:* August 2018

- Thesis : *Bayesian Transformation Models for Multivariate Survival Analysis with Applications in Large Data*
- Advisor: Qingxia (Cindy) Chen, Ph.D

Grand Valley State University (GVSU) — Allendale, MI

B.A., Mathematics and Statistics (Double Major), May 2012

- *Magna Cum Laude*

RESEARCH EXPERIENCE

Vanderbilt University School of Medicine — Nashville, TN

Graduate Research Assistant — December 2012 to present

- Research Supervisor: Rameela Chandrasekhar, Ph.D

Chapin Hall at the University of Chicago — Chicago, IL

Associate Researcher — May 2016 to June 2017

- Supervisors: Richard Epstein, Ph.D and Matthew Morton, D.Phil

TEACHING EXPERIENCE

Teaching Assistant

Bios 6342: Contemporary Statistical Inference — Spring 2018
Instructor: Jeffrey D. Blume, Ph.D

Bios 8366: Advanced Statistical Computing — Fall 2016, Fall 2017
Instructor: Chris Fonnesbeck, Ph.D

Bios 7362: Advanced Statistical Inference and Statistical Learning — Spring 2016
Instructor: Matt Shotwell, Ph.D

Bios 6341: Fundamentals of Probability — Fall 2015
Instructor: Brian Shepherd, Ph.D

Bios 7346: Advanced Regression Analysis II — Spring 2015
Instructor: Jonathan Schildcrout, Ph.D

Bios 7361: Advanced Probability and Real Analysis — Fall 2015
Instructor: Robert E. Johnson, Ph.D

AWARDS	
• WS Gossett Award for Exceptional Research, VU Dept. of Biostatistics	Jan. 2018
• Distinguished Teaching Assistant, VU Dept. of Biostatistics	Jan. 2017
• Outstanding Senior in Statistics, GVSU Department of Statistics	May 2012
• Mathematics Senior Award, GVSU Department of Mathematics	May 2012
• Student Summer Scholars Grant for Mathematics	July 2011
• National Science and Mathematics Access to Retain Talent Grant	2011
• STEM Award, GVSU Competitive Grant	2010-2012

PEER REVIEWED JOURNAL PUBLICATIONS

1. Morton, M., Dworsky, A., Matjasko, J. L., Curry, S., **Schlueter, D.**, Chavez, R., Farrell, A. "Prevalence and correlates of youth homelessness in the United States" (2018) *Journal of Adolescent Health.* 62(1), 14-21.

2. Curry, S. R., Morton, M., Matjasko, J. L., Dworsky, A., Samuels, G. M., **Schlueter, D.** (2017). "Youth Homelessness and Vulnerability: How Does Couch Surfing Fit?" *American Journal of Community Psychology.* 60(1), 17-24.

3. Epstein, R. A., **Schlueter**, D., Gracey, K. A., Chandrasekhar, R., Cull, M. J. (2015). "Examining placement disruption in child welfare." *Residential Treatment for Children and Youth*, 32(3), 224-232.

PAPERS IN PREPARATION

1. **Schlueter, D.**, Fonnesbeck, C., Wu. P, and Chen, Q. "Bayesian Large Scale Inference for Time to First Event of Multivariate Ordinal Survival Outcomes with Application to TennCare Cohort Study" 2017. *Under review.* Submitted to *Biometrics.*

2. **Schlueter, D.**, Chen, Q. "Bayesian Inference for Transformation Copula Survival Models" 2018, *In Preparation.*

PRESENTATIONS (PRIMARY PRESENTER)

1. **Schlueter, D.** "A broad introduction to Machine Learning" (September 28, 2017) Presentation and invited panel membership for Machine Learning Roundtable, Pizza and Programming Seminar Series, Advanced Computing Center for Research and Education (ACCRE), Nashville, TN.

2. **Schlueter, D.**, Chen, C., Fonnesbeck, F., Wu, P. "Bayesian Large Scale Inference for Time to First Event of Multivariate Ordinal Survival Outcomes with Application to TennCare Cohort Study" (May 25, 2017). Poster presentation at the 2017 Conference on Lifetime Data Science (LIDA). Storrs, CT.

3. **Schlueter, D.** "Two Groups and a Time to Event Outcome" (April 25, 2017), Part 3 of 2017 HSR Biostatistics Seminar Series *Basic Bayesian Analyses: How and Why You Want to Do Them: An Easy Introduction to Bayesian Analyses.*

4. **Schlueter, D.** "Introduction to Variational Bayesian Methods" (March 24, 2017) Statistical Computing Series, Vanderbilt University.

5. **Schlueter, D.** "Bayesian Non-Parametric Analysis (September 2016). Guest Lecture for Bios 8366, Advanced Statistical Computing. VU Department of Biostatistics

6. **Schlueter, D.** "On Firefly Markov Chain Monte Carlo (June 15, 2016). Discussion and Presentation for VU Biostatistics Journal Club.

7. **Schlueter, D.** "Flexible and Scalable Bayesian Survival Analysis (January 2016). Vanderbilt Biostatistics Student Research Forum, Seminar in VUMC Department of Biostatistics

8. **Schlueter, D.** "A Primer on Gaussian Processes (January 2016). Department Lecture in VUMC Department of Biostatistics.

9. **Schlueter, D.** "Gaussian Processes for Spatial Epidemiology (March 2015). Guest Lecture for Longitudinal Data course in VUMC Department of Biostatistics.

10. **Schlueter, D.** and Malloure, M: "Comparing Z and T intervals for Binary Logistic Regression (November 2011). Seminar presentation to GVSU Department of Statistics.

11. **Schlueter, D.** and Frazier, J.: Determining Indicators of MCAT Scores and Medical School Admission Rates (April 13, 2011). Poster at GVSU Student Scholars Day.

OTHER PRESENTATIONS

1. Chen, Q., **Schlueter, D.**, Fonnesbeck, C., and Wu, P. "Learning Maternal Smoking Effect on Childhood Bronchiolitis from TennCare" (March 27, 2018). Presentation at ENAR 2018. Atlanta, GA.

2. Morton, M., Dworsky, A., **Schlueter, D.**, Curry, S., and Matjasko, J. "National Prevalence and Incidence Estimates of Youth Homelessness" (January 10, 2018). Presentation at 22nd Society for Social Work and Research, Washington D.C.

3. Morton, M., Dworsky, A., **Schlueter, D.**, Curry, S., and Matjasko, J. "National Prevalence, Characteristics, and Correlates of Youth Homelessness in the US" (November 2, 2017). Presentation at 39th Annual Fall Research Conference of the Association for Public Policy Analysis and Management

4. Epstein R., Cull M., Jarrett R., **Schlueter D.**, Chandrasekhar R., Butler M., Schaffer A., Gracey K. "Using the CANS Readiness Tool for Reunification and Permanency to Improve Decision Making in Child Welfare" (October 5, 2017) Presentation at 13th Annual Transformational Collaborative Outcomes Management Conference. San Antonio, TX.

5. Jarrett, R., Epstein, R., Cull, M., **Schlueter, D.** , Gracey, K., Butler, M., Chandrasekhar, R. "Identification of Potentially Problematic Prescribing to a Vulnerable Population" (July 29, 2017) Presentation at Joint Statistical Meetings 2017. Baltimore, MD.

PROFESSIONAL ACTIVITIES

- Member, Center of Excellence for Children in State Custody at Vanderbilt (2012 - Present)

PROFESSIONAL MEMBERSHIPS

- American Statistical Association (ASA) (2014 - Present)
- International Society for Bayesian Analysis (ISBA) (2017-Present)

Service   **Conferences**

Session Chair for *A Recent Development on Competing and Semi-competing Risks*, 2017 Conference on Lifetime Data Analysis, Storrs, CT. (May 2017)

Session Chair for *Emerging Issues in Clinical Trials with Time-to-Event Data in the Presence of Competing Risks*, Eastern North American Region, Austin, TX. [Substituted for Julie Cong] (March 2016)

Ad-Hoc Reviewer

Statistics and Its Interface (2017: 1)

Additional Professional Skills

Computer Programming:
- Python, R, SAS, Stata, Cluster Computing

Languages:
- English (Native)
- Spanish (Working Knowledge)

Recent Volunteer Work

- Advisor (Lebanon High School), *Model United Nations Conference B*, Tennessee YMCA Center for Civic Engagement (November 17-19, 2017), Murfreesboro, TN.

References

Jeffrey D. Blume, Ph.D.
Associate Professor
Director of Graduate Studies
Department of Biostatistics   E-mail: j.blume@vanderbilt.edu
Vanderbilt University Medical Center

Rameela Chandrasekhar, Ph.D.
Assistant Professor
Department of Biostatistics   E-mail: rameela.chandrasekhar@vanderbilt.edu
Vanderbilt University Medical Center

Qingxia (Cindy) Chen, Ph.D.
Associate Professor
Department of Biostatistics   E-mail: cindy.chen@vanderbilt.edu
Vanderbilt University Medical Center

Richard Epstein, Ph.D.
Policy Fellow
Chapin Hall at the University of Chicago   E-mail: repstein@chapinhall.org

Christopher Fonnesbeck, Ph.D.
Associate Professor
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