

Joshua N. Pritikin

Education

- 2014–2016 **Ph.D. Psychology**, *University of Virginia*, Charlottesville, VA (advisers Steven Boker and Timo von Oertzen).
Topic: *Unbelievably fast estimation of nested multilevel structural equation models*
- 2011–2013 **M.A. Psychology**, *University of Virginia*, Charlottesville, VA (advisers Steven Boker, Karen Schmidt, and Timo von Oertzen).
Topic: *Item Factor Analysis: A primer and new open-source implementation*
- 2007–2009 **B.S. Psychology**, *University of Oregon*, Eugene, OR.

Awards and Honors

- 2014–2015 Developing Students for Leadership in Data-intensive Research and Innovation from The Jefferson Trust \$20,000
- 2008–2009 Osher Reentry scholarship \$4500

Publications

- Falk, C. F. & Pritikin, J. N. (in press). Computer programming in quantitative analysis. In B. Frey (Ed.), *The SAGE Encyclopedia of Educational Research, Measurement, and Evaluation*. Thousand Oaks, CA: SAGE.
- Pritikin, J. N., Brick, T. R., & Neale, M. C. (in press). Multivariate normal maximum likelihood with both ordinal and continuous variables, and data missing at random. *Behavior Research Methods*.
- Pritikin, J. N. (2017). A comparison of parameter covariance estimation methods for item response models in an expectation-maximization framework. *Cogent Psychology*, 4(1), 1279435. doi:10.1080/23311908.2017.1279435
- Pritikin, J. N., Hunter, M. D., von Oertzen, T., Brick, T. R., & Boker, S. M. (2017). Many-level multilevel structural equation modeling: An efficient evaluation strategy. *Structural Equation Modeling: A Multidisciplinary Journal*, 24(5), 684–698. doi:10.1080/10705511.2017.1293542
- Pritikin, J. N., Rappaport, L. M., & Neale, M. C. (2017). Likelihood-based confidence intervals for a parameter with an upper or lower bound. *Structural Equation Modeling: A Multidisciplinary Journal*, 24(3), 395–401. doi:10.1080/10705511.2016.1275969
- Neale, M. C., Hunter, M. D., Pritikin, J. N., Zahery, M., Brick, T. R., Kirkpatrick, R., ... Boker, S. M. (2016). OpenMx 2.0: Extended structural equation and statistical modeling. *Psychometrika*, 81(2), 535–549. doi:10.1007/s11336-014-9435-8
- Pritikin, J. N. (2016). A computational note on the application of the Supplemented EM algorithm to item response models. *arXiv preprint arXiv:1605.00860*. arXiv: 1605.00860 [stat.CO]

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- Pritikin, J. N. & Schmidt, K. M. (2016). Model builder for Item Factor Analysis with OpenMx. *R Journal*, 8(1), 182–203.
- Boker, S. M., Brick, T. R., Pritikin, J. N., Wang, Y., von Oertzen, T., Brown, D., . . . Neale, M. C. (2015). Maintained individual data distributed likelihood estimation. *Multivariate Behavioral Research*, 50(6), 706–720.
- Kelly, G., Mobbs, S., Pritikin, J. N., Mayston, M., Mather, M., Rosenbaum, P., . . . Forsyth, R. (2015). Gross motor function measure-66 trajectories in children recovering after severe acquired brain injury. *Developmental Medicine and Child Neurology*, 57(3), 241–247. doi:10.1111/dmcn.12592
- Pritikin, J. N. (2015). *Rpf: Response probability functions* [Computer software]. Version 0.51. R package version 0.51. Retrieved February 24, 2016, from <https://CRAN.R-project.org/package=rpf>
- Pritikin, J. N., Hunter, M. D., & Boker, S. M. (2015). Modular open-source software for Item Factor Analysis. *Educational and Psychological Measurement*, 75(3), 458–474. doi:10.1177/0013164414554615
- Pritikin, J. N. & Schmidt, K. (2013). A self-report measure for familiarity with mental silence. In W. v. Moer, D. A. Çelik, & J. L. Hochheimer (Eds.), *Spirituality in the 21st century: Journeys beyond Entrenched Boundaries* (pp. 23–31). Oxford, United Kingdom: Inter-Disciplinary Press.
- Pritikin, J. N. (2007). We ought to characterize dyadic prospects. In *International Conference on Affective Computing and Intelligent Interaction: Doctoral Consortium*. Lisbon, Portugal.

In Process

- Pritikin, J. N., Driver, C., Bharadwaj, V., Schmidt, K. M., Manocha, R., Thomas, S. L., et al. (in preparation). A self report measure for Transient Implicit Explicit Synchronization (TIES).
- Pritikin, J. N. & Schmidt, K. M. (in preparation). Relative characteristics of physical activities.

Misc. Teaching Experience

- 2017 Oct **Faculty** Advanced Genetic Epidemiology Statistical Workshop. Richmond, VA
- 2015 Oct **Faculty** Advanced Genetic Epidemiology Statistical Workshop: Applications to Drug Abuse. Richmond, VA

Conference Presentations

- 2017 May 27 *Bayesian model for characteristics of physical activities*. APS, Boston, MA
- 2017 May 23 *Toward multilevel variance decomposition of interactions in non-linear structural equation models*. Modern Modeling Methods, University of Connecticut, CT
- 2016 Jul 15 *Multilevel structural equation model rotation*. International Meeting of the Psychometric Society, Asheville, NC
- 2016 May 25 *Introduction to Relational SEM and an Efficient Computational Strategy for Relational SEM*. Modern Modeling Methods, University of Connecticut, CT
- 2015 Mar 23 *Statistical Modeling Without Seeing the Data*. 2015 Huskey Research Exhibition, University of Virginia, VA
- 2015 Feb 21 *Modern Test Theory Primer*. Workshop taught at The 5th International Symposium on Assessment in Music Education, Williamsburg, VA

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2013 Mar 08 *A self-report measure for familiarity with mental silence.* Paper presented at The 3rd Global Conference on Spirituality in the 21st Century: Theory, Praxis and Pedagogy, Lisbon, Portugal.

Positions

2016-present **Postdoctoral Fellow**, *Virginia Commonwealth University*.
2015-2016 **Research Assistant**, *University of Virginia*, OpenMx Project.
2013-2014 **Teaching Assistant**, *University of Virginia*.
Undergraduate Advanced Research Methods & Data Analysis series (4005, 4006).
Undergraduate Introduction to Statistics for Psychology Majors (3006).
2011-2012 **Grader**, *University of Virginia*.
Undergraduate Introduction to Statistics for Psychology Majors series (3005, 3006).
2009-2011 **Software Engineer**, *Palo Alto Software*, Eugene, OR.
Worked on two products: Email management for customer service teams and LivePlan business planning software (Java, cloud computing).
2002-2006 **Husband/Father**, Nashik, India.
Spent a lot of time thinking about what I wanted to do with my life.
1996-2001 **Software Engineer**, *NatWest/Deutsche Bank*, New York City, NY.
Developed equities program trading system (Qt, Perl, C++, ObjectStore).
1993-1995 **Software Engineer**, *Various Companies*, New York City, NY.
1990-1992 **Undergraduate Student**, *Carnegie Mellon University*, Pittsburgh, PA.
Math/Computer Science Major

Department Presentations

2016 Dec 08 Confidence intervals for a parameter with an upper or lower bound
2016 Mar 17 Fast estimation of multilevel structural equation models
2015 Apr 16 Arne's transient hypofrontality hypothesis: A bridge between flow and meditation
2014 Oct 16 Examination of the likelihood function by simulation of a fictional Hamiltonian system
2014 Mar 27 Numeric derivatives: Pushing the accuracy limits
2013 Oct 17 Item Factor Analysis: Everything I told you in the spring was wrong, and current status
2013 Mar 28 A new implementation of Item Factor Analysis: Accuracy, flexibility, and speed
2012 Nov 01 Navigating the bowels of Marginal Maximum Likelihood: An expectation-maximization Item Response Theory estimation algorithm
2012 Apr 19 Is there a link between flow and meditation?
2011 Dec 05 Oscillation around non-stationary equilibria

Manuscripts Reviewed For

African Journal of Business Management
Cogent Education

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Cogent Psychology

Frontiers in Applied Mathematics and Statistics (Quant. Psychology and Measurement)

Frontiers in Psychology (Quant. Psychology and Measurement)

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