

Jeffrey Robert Spies

PERSONAL INFORMATION

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FORMAL EDUCATION

M.A. Quantitative Psychology, December 2007

University of Notre Dame, Notre Dame, IN (advisor Steven M. Boker)

Thesis Topic: *Local Sequence Alignment as a Method to Detect Temporal Patterns in Behavioral Data*

B.S. Computer Science, Second Major: Psychology, Cum Laude, May 2004

University of Notre Dame, Notre Dame, IN.

PROFESSIONAL POSITIONS

2008 *Laboratory Co-Manager*, Human Dynamics Laboratory, University of Virginia.

2008–Present: *Graduate Student*, Ph.D. Program in Quantitative Psychology, Department of Psychology, University of Virginia.

2006–2007: *Laboratory Manager*, Laboratory for the Quantitative Investigation of Human Dynamics, University of Notre Dame.

2004–2007: *Graduate Student*, Joint Ph.D. Program in Quantitative Psychology and Computer Science, Department of Psychology, University of Notre Dame.

SERVICE POSITIONS

2008–Present: *Quantitative Curriculum Committee*, Department of Psychology, University of Virginia.

2005: *Graduate Curriculum Committee*, Department of Psychology, University of Notre Dame.

PROFESSIONAL HONORS

National Institute of Aging Quantitative Training Grant (2008–2009) Department of Psychology, University of Virginia.

SGI Award for Computational Science and Visualization (2005) sponsored by SGI for TreeView: A Multi-Dimensional Visualization Tool.

Departmental Graduate Fellowship (2004–2010) Department of Psychology, University of Notre Dame.

Senior Honors Thesis (2003–2004) Department of Psychology, University of Notre Dame

Title: Context processing deficits as the locus of age-related differences in Stroop interference: A computational study.

Advisor: Dr. Robert West, Department of Psychology.

Dean's Honor List (2001–2004) University of Notre Dame.

ACM East Central North America Programming Contest Honorable Mention (2001) sponsored by IBM.

JOURNAL ARTICLES

- Spies, J. R. (In Preparation). Local Sequence Alignment as a Method to Detect Temporal Patterns in Behavioral Data.
- Spies, J. R. (In Preparation). HDTreeV: a Multidimensional Visualization Tool.
- Spies, J. R., & West, R. (In Preparation). Context processing deficits as the locus of age-related differences in Stroop interference: A computational study.
- Kenny, S., Andric, M., Clifford, B., Hategan, C, Spies, J. R., & Boker, S. M. (Under Review) Infrastructure for Large-scale, Distributed Computational Neuroscience Applications.
- Boker, S. M., Cohn, J. F., Theobald, B., Matthews, I., Mangini, M., Spies, J. R., Ambadar, Z., & Brick, T. R. (Under Review) Something in the Way We Move: Motion Dynamics, not Perceived Sex, Influence Head Nods in Conversation.
- Theobald, B., Matthews, I., Mangini, M., Spies, J., Brick, T., Cohn, J. F., Ambadar, Z., & Boker, S. (In Press) Mapping and Manipulating Visual Prosody. *Journal of Language and Speech*.
- Brick, T. R., Spies, J. R., Theobald, B.-J., Matthews, I., & Boker, S. M. (2009). High-Presence, Low-Bandwidth, Apparent 3D Video-conferencing with a Single Camera. *Proceedings of the 9th International Workshop on Image Analysis for Multimedia Interactive Services*.
- Spies, J. R. (2005). HDTreeV: A Multidimensional Visualization Tool. *2005 Proceedings of the North American Association for Computational, Social, and Organizational Science*.

BOOK CHAPTERS

- Lubke, G., & Spies, J. (2008). Choosing a “correct” mixture model: Power, limitations, and some help from graphics. In G. R. Hancock & K. M. Samuelsen (Eds.), *Mixture Models in Latent Variable Research*. Charlotte, NC: Information Age Publishing, 343–362.

CONFERENCE PAPERS, COLLOQUIA, SYMPOSIA, and POSTERS

- Lerner, M. D., Spies, J. R., Jordan, B. L., & Mikami, A. Y. (2009) Critical Self-Referent Attributions Potentiate Social Skills Intervention Response in Adolescents with Asperger Syndrome & High-Functioning Autism. *International Meeting for Autism Research*; May 8, 2009.

- Boker, S. M., Brick, T. R. & Spies, J. R. (2008) Coordination of Facial Expressions and Head Movement in Dyadic Conversation. Presented to the *New England Sequencing and Timing 2008*; March 8, 2008.
- Matthews, I., Boker, S. M., Theobald, B.-J., Cohn, J. F., Mangini, M., Spies, J. R., Brick, T. R., & Abadar Z. (2007) Facial Expression and Motion in Dyadic Conversation. Presented at *Meeting of Minds: The Thinking Head Thinking Systems Project*; Parramatta, Australia; November 23, 2007.
- Boker, S. M., Cohn, J. F., Lucey, S., Theobald, B.-J., Matthews, I., Abadar, Z., Mangini, M., Spies, J. R., & Brick, T. R. (2007) Measuring and Manipulating Coordination Dynamics during Conversation. Presented to the *Annual Meeting of the Society of Multivariate Experimental Psychology*; Chapel Hill, NC; October 18, 2007.
- Boker, S. M., Cohn, J. F., Lucey, S., Theobald, B.-J., Matthews, I., Abadar, Z., Mangini, M., Spies, J. R., & Brick, T. R. (2007) Manipulation of Appearance and Dynamics during Dyadic Interaction. Invited talk presented to the *National Science Foundation Human and Social Dynamics Program Annual PIs Meeting*; Arlington, VA; October 2, 2007.
- Boker, S. M., Ashenfelter, K. T., & Spies, J. R. (2006). Age-Related Latent Differential Equations Models for Multivariate Measurement of the Dynamics of Intraindividual Variability. Symposium talk presented to the *Annual Convention of the Gerontological Society of America*; November, 2006.
- Boker, S. M., Cohn, J., Matthews, I., Ashenfelter, K., Spies, J., Brick, T., Deboeck, P., Covey, E. & Tiberio, S. (2006) Coordinated Motion and Facial Expression in Dyadic Conversation. Poster presented to the 2006 NSFHSD P.I. meeting; Washington, DC; September 14–15, 2006.
- Chow, S.-M., Bauer, C., Spies, J. R., Li, S.-C., Lindenberger, U. & Baltes, P. B. Predicting optimal pathways to cognitive aging: Agent-based modeling of selection, optimization, and compensation dynamics. Talk presented at the *Annual Convention of the American Psychological Association*, New Orleans, LA; August, 2006.
- Lubke, G., & Spies, J. (2006). Factor Mixture Analysis of Beck Depression Inventory Data: Initial Analyses, Graphical Representation, and Power Calculations. *Notre Dame Series on Quantitative Methodology: Methods for Child & Adolescent Development and Family Processes*; May, 2006.
- Lubke, G., & Spies, J. (2006). Choosing a “correct” mixture model: Power, limitations, and some help from graphics. *Annual Conference for Mixture Models in Latent Variable Research*; May 2006.
- Chow, S., Spies, J. R., Bauer, C., Li, S., Lindenberger, U., & Baltes, P. B. (2006). An Agent-Based Mathematical Modeling Approach to the Theory of Selection, Optimization and Compensation (SOC). *Cognitive Aging Conference*; April, 2006.
- Boker, S. M., & Spies, J. (2005). Age-related differences in time-varying coordination during standing. Symposium talk presented to the *Annual Meeting of the Gerontological Society of America*; November 22, 2005.

Spies, J. R., & West, R. (2005). Context processing deficits as the locus of age-related differences in Stroop interference: A computational study. Presented at the Max Planck Institute for Human Development, Berlin, Germany; May 30, 2005.

Spies, J. R. (2003). GuitarMorph: the musical analogy of the BioMorph. Poster presented at *SwarmFest 2003: Seventh Annual Swarm Users/Researchers Conference*.

Eberhard, K. M., Scheutz, M., Targowski, K., & Spies, J. (2002). The effects of grammatical gender associations in one's native language on the processing of word representations in a second language. Poster presented at the 15th Annual CUNY Conference on Human Sentence Processing.

University of Virginia Design and Data Analysis Seminar Series

November 2008 A Discussion of the OpenMx User Interface

March 2008 Local Sequence Alignment as a Method to Detect Temporal Patterns

University of Notre Dame Quantitative Studies Group

November 2007 Local Sequence Alignment as a Method to Detect Patterns in Temporal Behavioral Data

March 2006 Genetic Algorithms: From Darwin to Darwin the Guitarist

November 2005 Rethinking Agent-Based Modeling: Applications in Psychology

April 2005 TreeView: a Multi-Dimensional Visualization Tool

SOFTWARE DEVELOPMENT

Lead Developer:

HDTreeV (aka TreeView)

Darwin the Guitarist (aka GuitarMorph)

Core Development Team:

OpenMX

CLASSROOM TEACHING

Instructor of Record:

Engineering Projects In Community Service (CSE 20600, 30600, 40600) University of Notre Dame, Fall 2005, Spring 2006, Fall 2007

Teaching Assistant:

Graduate Statistics (PSY 60100) University of Notre Dame, Fall 2005

OTHER TEACHING EXPERIENCE

Agent-Based Modeling of Lifespan Development: Examples, Implementation, Strategies and Implications for Psychological Research, Workshop, Max Planck Institute for Human Development, Berlin, Germany; June 1-2, 2005 (co-taught with S.-M. Chow).

PAST AND CURRENT PROFESSIONAL MEMBERSHIP

American Statistical Association (ASA), North American Association for Computational, Social, and Organizational Science (NAACSOS).