

Nicholas J. Seewald

Curriculum Vitae

PERSONAL INFORMATION

ADDRESS: 322 N. State St. #304, Ann Arbor, MI 48104
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EDUCATION

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| <i>Current</i> | Doctor of Philosophy , Statistics UNIVERSITY OF MICHIGAN, Ann Arbor, Michigan |
| MAY 2015 | Master of Science , Biostatistics UNIVERSITY OF MICHIGAN, Ann Arbor, Michigan GPA: 3.90/4.00 |
| MAY 2013 | Bachelor of Science <i>cum laude</i> , Pure Mathematics with Life Science UNIVERSITY OF NOTRE DAME, Notre Dame, Indiana Glynn Family Honors Program GPA: 3.75/4.00 |

RESEARCH EXPERIENCE

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| <i>Current</i> SEPT 2015 | Graduate Student Research Assistant, University of Michigan <i>Supervisor: Susan A. Murphy, Ph.D.</i> Assisted in managing data from <i>HeartSteps</i> , a micro-randomized trial aimed at investigating the effects of brief, momentary interventions to increase physical activity in adults (PI Predrag Klasjna, Ph.D.) Assisted with development of a sample size calculator for micro-randomized trials. |
| JAN 2014 - AUG 2015 | <i>Supervisor: Kelley M. Kidwell, Ph.D.</i> Developed a web application for sizing sequential, multiple-assignment, randomized trials (SMARTs) with binary or continuous outcomes in which the primary goal is to compare two embedded dynamic treatment regimes. Collaborated with investigators in the University of Michigan Health System, School of Pharmacy, and Department of Psychology on data analysis projects involving cancer, genetics, and obesity. |
| SEP 2013 - JAN 2014 | <i>Supervisor: Gonçalo Abecasis, D.Phil.</i> Worked on aligning whole-genome samples from a large-scale case control study on age-related macular degeneration. |
| SEP 2014 - AUG 2015 | Trainee, Cancer Biostatistics Training Program, University of Michigan <i>PI: Jeremy M.G. Taylor, Ph.D.</i> ; NIH Training Grant 5T32CA083654 |
| APR 2012 - APR 2013 | Senior Thesis, ENTROPY AND COUNTING <i>Supervisor: David Galvin, Ph.D.</i> Studied properties of the entropy of a random variable and its combinatorial implications, especially Brégman's Theorem, Dedekind's Problem, and H-Colorings of graphs. |
| JAN 2010 - MAY 2011 | Undergraduate Research in Chemistry, University of Notre Dame <i>Supervisor: Seth N. Brown, Ph.D.</i> Studied NMR kinetics of reaction between molybdenum tris(catecholate) and nitrogen-containing compounds to determine a probable reaction mechanism. |

PUBLICATIONS

PEER-REVIEWED

- 2013 | Randolph, A.H.; **Seewald, N.J.**; Rickert, K.; Brown, S.N. Tris(3,5-di-tert-butylcatecholato)molybdenum(VI): Lewis Acidity and Nonclassical Oxygen Atom Transfer Reactions. *Inorg. Chem.* **2013**, *52*, 12587-12598.
- 2012 | Marshall-Roth, T.; Liebscher, S.C.; Rickert, K.; **Seewald, N.J.**; Oliver, A.G.; Brown, S.N. Nonclassical oxygen atom transfer reactions of oxomolybdenum(vi) bis(catecholate). *Chem. Commun.* **2012**, *48*, 7826-7828.

IN PRESS

- 2015 | Hertz, D.L.; Caram, M.V.; Kidwell, K.M.; Thibert, J.N.; Gersch, C.; **Seewald, N.J.**; *et al.* Evidence for association of SNPs in ABCB1 and CBR3, but not RAC2, NCF4, SLC28A3 or TOP2B, with chronic cardiotoxicity in a cohort of breast cancer patients treated with anthracyclines. *Pharmacogenomics*.

UNDER REVIEW

- 2015 | Kadakia, K.C.; Snyder, C.F.; Kidwell, K.M., **Seewald, N.J.**, Storniolo, A.M.; *et al.* Patient-Reported Outcomes and Early Discontinuation in Aromatase Inhibitor-treated Postmenopausal Women with Early Stage Breast Cancer. *The Oncologist*.
- Hertz, D.L.; Kidwell, K.M.; **Seewald, N.J.**; Gersch, C.L.; Desta, Z.; *et al.* Polymorphisms in drug-metabolizing enzymes and steady-state exemestane concentration in postmenopausal patients with breast cancer. *The Pharmacogenomics Journal*.
- Muerer, W.; **Seewald, N.J.**; Kidwell, K.M. Sequential Multiple Assignment Randomized Trials: An Opportunity for Improved Design of Stroke Reperfusion Trials. *Stroke*.

IN PREPARATION

- Kidwell, K.M.; **Seewald, N.J.**; Tran, B.Q.; Almirall, D. Design and Analysis Considerations for Comparing Dynamic Treatment Regimes with Binary Outcomes from Sequential Multiple Assignment Randomized Trials.

POSTERS AND PRESENTATIONS

- Nov 20, 2014 | **Seewald, N.J.**; Almirall, D.; Kidwell, K.M. "A SMART Web-Based Sample Size Calculator."
Poster presentation at IMPACT Symposium III: Advances in Clinical Trial Statistics: Multiplicity Adjustment and Sequential, Multiple Assignment, Randomized Trials. Cary, NC.
- DEC 04, 2014 | "L^AT_EX 101/201," Biostatistics Brown Bag Seminar, University of Michigan
Informal tutorial session on intermediate L^AT_EX for statistics geared toward biostatistics students.

AWARDS AND HONORS

- MAR 20, 2015 | Best Departmental Poster Presentation (Biostatistics), Michigan Student Symposium for Interdisciplinary Statistical Sciences

TEACHING EXPERIENCE

- AUG 2010 - MAY 2013 | Calculus Tutor at LEARNING RESOURCE CENTER, University of Notre Dame
Led Collaborative Learning sessions with groups of First Year students. Courses taught include Calculus I and II for business, life science, engineering, and mathematics majors.
Worked with LRC Director to introduce Math Mentoring Night, a program intended to offer First Year students homework help and math-related guidance.
- JAN-MAY 2012 | Undergraduate Teaching Assistant in BIOSTATISTICS, Department of Biological Sciences, University of Notre Dame
Supervisor: Gary Lamberti, Ph.D.
Helped design and facilitate tutorial sessions structured around data analysis in R.
Assisted students with homework, projects, and coding in R

LEADERSHIP AND SERVICE

- Current*
SEP 2014 | Member of BIOSTATISTICS STUDENT ASSOCIATION, University of Michigan
Lead design and sales of department apparel aimed at fundraising for student activities which promote biostatistics among the School of Public Health.
- Current*
SEP 2014 | Member of STATCOM@UMICH, University of Michigan
Assisted in pro-bono statistical consulting projects for non-profit organizations in Washtenaw County, Michigan.
- APR 2012 - MAY 2013 | Vice President of MATH CLUB OF NOTRE DAME, University of Notre Dame
Planned, organized, and held activities to promote mathematics awareness and to increase camaraderie among mathematics majors.
- APR 2012 - MAY 2013 | Apparel Chair of SENIOR CLASS COUNCIL, University of Notre Dame

COMPUTING

Proficiency: \LaTeX , SAS, R
Basic Knowledge: C++, Python, Ubuntu Linux, MATLAB, Mathematica