

# Nicholas J. Seewald

## *Curriculum Vitae*

### PERSONAL INFORMATION

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### EDUCATION

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<i>Expected</i> MAY 2015	<b>Master of Science</b> , Biostatistics UNIVERSITY OF MICHIGAN, Ann Arbor, Michigan GPA: 3.89/4.00
MAY 2013	<b>Bachelor of Science</b> <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> JAN 2014	Graduate Student Research Assistant, University of Michigan <i>Supervisor: Kelley M. Kidwell, Ph.D.</i> Developed a web application for sizing SMARTs with binary or continuous outcomes in which the primary goal is to compare two embedded dynamic treatment regimes. Helped derive sample size formulae for SMART designs with binary outcomes, in collaboration with Daniel Almirall, Ph.D. 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: Gonalo Abecasis, D.Phil.</i> Worked on aligning whole-genome samples from a large-scale case control study on age-related macular degeneration.
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 Br�egman's Theorem, Dedekind's Problem, and H-Colorings of graphs.
MAY - JUL 2011	Summer Experience in Algebra, University of Notre Dame <i>Supervisor: Francis X. Connolly, Ph.D.</i> Intensive program in graduate-level group and ring theory based on Dummit and Foote's <i>Abstract Algebra</i> .
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.

## PEER-REVIEWED PUBLICATIONS

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- 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.

## TRAINING GRANTS

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<i>Current</i> SEP 2014	Training Program in Cancer Research <i>Program Director: Jeremy M G Taylor, Ph.D.</i> Financial support is partially funded by NIH Training Grant 5T32CA083654-12.
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## TEACHING EXPERIENCE

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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 <i>Supervisor: Gary Lamberti, Ph.D.</i> Helped design and facilitate tutorial sessions structured around data analysis in R. Assisted students with homework, projects, and coding in R

## LEADERSHIP AND SERVICE EXPERIENCE

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<i>Current</i> 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.
<i>Current</i> 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

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