# Matthew J. Nizol

Email: nizolmat@msu.edu • Phone: 810.623.3010

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## Education

**Michigan State University,** 2013 – 2018 (expected)
- PhD in Computer Science & Engineering (in progress)
- Doctoral Advisor: Dr. Laura Dillon
- GPA: 4.0/4.0

**University of Michigan – Ann Arbor,** 2004 – 2006
- Graduate course work, Computer Science & Engineering
- GPA: 7.33/9.0 over 15 credits

**University of Michigan – Dearborn,** 1999 - 2003
- BSc, Computer and Information Science
- Honors Program Student
- Senior Design Team Project: JSP / MySQL ticket-tracking system for BRT
- GPA: 3.92/4.0, graduated with High Distinction

## Professional

**United BioSource Corporation**, Ann Arbor, MI, 2010 - 2013
*Senior Clinical Programmer / Analyst*
- Production and validation programming in SAS of data sets, tables, listings and figures in support of Phase I-III oncology and cardiovascular clinical trials
- Programmed safety and efficacy data sets and TLFs including
  - Analysis of progression-free survival
  - CA-125 response using Rustin criteria
  - Pharmacokinetic analyses
  - Area Under the Curve (AUC) analyses of post-prandial lipids

**EDS / Hewlett-Packard**, Flint / Pontiac, MI, 2003 - 2010
*Services Information Developer II*
- Designed, coded, and tested warranty analysis and reporting programs in SAS on Unix involving time to repair linear projections and forecasting
- Designed a wildcard merge algorithm to assign claims responsibility to suppliers
- Lead programmer on GM's warranty and campaign reserve adequacy studies, which were reviewed by internal and external auditors and senior GM financial leadership
- Designed a method to consolidate heterogeneous claims categorization schemes
- Refactored and maintained a web application written in JSP, SQL, HTML, CSS and JavaScript with an Oracle DB that provided on-demand access to charts and reports

**EDS**, Pontiac, MI, 2002 - 2003
*Technical Co-op Student*
- Designed, coded, and tested an environment variable tracking utility for the Unigraphics CAD system written in C and using the UG/Open API
- Developed platform independent code for Windows and Unix

## Refereed Publications
- Matthew Nizol, Laura K. Dillon, R.E.K. Stirewalt. "Toward Tractable Instantiation of Conceptual Data Models Using Non-Semantics-Preserving Model Transformations." 6th International Workshop on Modeling in Software Engineering (MiSE 2014), Hyderabad, India.

## Other Publications
- Matthew Nizol. "A Simple Approach to the Automated Unit Testing of Clinical SAS Macros." PharmaSUG 2013 Conference Proceedings, Chicago, IL, May 2013.
- Matthew Nizol. "Using a Double DOW Loop to Compute Progression Free Survival." MWSUG 2011 Conference Proceedings, Overland Park, KS. October 2011.
- Matthew Nizol. "Tables as Trees: Merging with Wildcards Using Tree Traversal and Pruning." MWSUG 2010 Conference Proceedings, Milwaukee, WI. October 2010.

## Presentations
- "Using a Double DOW Loop to Compute Progression Free Survival." Michigan SAS User's Group First Quarter 2012 Meeting, Ann Arbor, MI, February 2012.
- "Tables as Trees: Merging with Wildcards Using Tree Traversal and Pruning." Michigan SAS User's Group First Quarter 2011 Meeting, Ann Arbor, MI, February 2011.

## Fellowships and Scholarships
- National Science Foundation Graduate Research Fellowship Program, 2014-2017
- University Distinguished Fellowship, Michigan State University, 2013-2018
- Chancellor's Full-Tuition Scholarship, University of Michigan – Dearborn, 1999-2003
- Ronald C. Byrd Honors Scholarship, 1999-2000

## Awards and Honors
- Upsilon Pi Epsilon Honor Society for the Computing Sciences, 2002-present
- Emerging Leaders Program, 2002-2003
- James B. Angell Scholar, 2001, 2003
- William J. Branstrom Prize, 2000
- University Honors, 2000-2002
- Class Honors, 2000

## Service

- Student Volunteer, 36th International Conference on Software Engineering (ICSE 2014), Hyderabad, India
- Technical Reviewer for Book: Lisa Fine. *PROC REPORT by Example: Techniques for Building Professional Reports Using SAS.* SAS Institute, 2013
- Opening address, Scholarship Appreciation Breakfast, University of Michigan – Dearborn, October 2002
- Undergraduate Representative, Task Force on Strengthening and Extending Undergraduate Education, 2001

## Certifications

- *SAS Certified Clinical Trials Programmer Using SAS 9* [scored 98%]

## Professional Affiliations

- ACM Special Interest Group on Software Engineering (SIGSOFT)