

Gregory Gay

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STRENGTHS

Strong writing skills, enjoys teaching, proven leader, passion for learning new things, remains calm under pressure, experience with multiple research areas, fluent in multiple programming languages (Java, C, C++, Awk, Smalltalk, Bash Scripting, minor experience in others), international experience (including a research posting in China), has mastered multiple operating systems and user environments.

EDUCATION

University of Minnesota, Minneapolis MN

PhD in Computer Science: 05/2014

West Virginia University, Morgantown WV

Masters of Science in Computer Science: 05/2010

Overall GPA: 3.5

Thesis Title: Robust Optimization of Non-Linear Requirements Models

West Virginia University, Morgantown WV

Bachelor of Science in Computer Science: 05/2008

Overall GPA: 3.29

EXPERIENCE

University of Minnesota

Research Assistant (**Dr. Mats Heimdahl, Software Engineering Center**), 08/2010 – Present

- Involved in research in search-based software engineering, data mining, and testing.

West Virginia University

Research Assistant (**Dr. Tim Menzies, Modeling Intelligence Lab**), 05/2007 – 05/2010

- Responsible for writing customized software to handle various data preprocessing, model optimization, information retrieval and data mining tasks.
- Conducted research in data mining and search-based software engineering techniques.

Research Assistant (**Dr. Francis VanScoy, Virtual Environments Lab**), 05/2006-04/2007

- Developed software to test the effects of various alternative input devices on immersion.
- Researched various virtual reality devices and interfaces.

Institute of Software, Chinese Academy of Sciences

Visiting Academic, 01/2010-03/2010

- Software engineering research with Chinese academics.
- Collaboration on conference papers and ongoing research tasks.

National Aeronautics and Space Administration (NASA) – Ames Research Center

Intern, Robust Software Engineering Group, 05/2009-08/2009

- Applied treatment learning concepts to large simulation models.
- Compared data mining and model optimization techniques.

National Aeronautics and Space Administration (NASA) – IV&V Center

Science/Engineering Apprenticeship Program (SEAP) Intern, 05/2005-08/2005

- Wrote an online inventory system for assets.
- Performed various computer and server repairs and upgrades.

PROFESSIONAL SERVICE

International Conference on Predictive Models in Software Engineering (PROMISE)

Program Committee, 2011-Present

Association for Computing Machinery – West Virginia University chapter

President, 2008-2009

Vice-President, 2007-2008

WVU Engineering Student Advisory Council

Member, 2007-2010

JOURNAL PUBLICATIONS

2011

[1] Adam Nelson, Tim Menzies, Gregory Gay. *Sharing Experiments Using Open Source Software*. Software – Practice and Experience. Accepted July 2010, to be published early 2011. Available from <http://greggay.com/pdf/10ourmine.pdf>

2010

[1] Gregory Gay, Tim Menzies, Omid Jalali, Gregory Mundy, Beau Gilkerson, Martin Feather, and James Kiper. *Finding Robust Solutions in Requirements Models*. Automated Software Engineering, 17, 1 (Mar. 2010), 87-116. Available from <http://www.greggay.com/pdf/10keys.pdf>

[2] Gregory Gay, Tim Menzies, Misty Davies, and Karen Gundy-Burlet. *Automatically Finding the Control Variables for Complex System Behavior*. Automated Software Engineering, 17, 4 (Dec. 2010). Available from <http://www.greggay.com/pdf/10tar3.pdf>

CONFERENCE PUBLICATIONS

2010

[1] Gregory Gay. *A Baseline Method For Search-Based Software Engineering*. In Proceedings, PROMISE 2010. Available from <http://greggay.com/pdf/10baseline.pdf>

[2] Ekrem Kocaguneli, Gregory Gay, Yim Menzies, Ye Yang, and Jacky Keung. *When to Use Data from Other Projects for Effort Estimation*. In Proceedings, ASE 2010. Available from <http://greggay.com/pdf/10ccwc.pdf>

[3] Jia Chen, Ye Yang, Wen Zhang, Gregory Gay. *Measuring the Heterogeneity of Cross-company Datasets*. In Proceedings, PROFES 2010. Available from <http://greggay.com/pdf/10profes.pdf>

2009

[1] Gregory Gay, Tim Menzies, Bojan Cukic, Burak Turhan. *How to Build Repeatable Experiments*. In Proceedings, PROMISE conference, 2009. Available from <http://greggay.com/pdf/09ourmine.pdf>

[2] Gregory Gay, Sonia Haiduc, Andrian Marcus, Tim Menzies. *On the Use of Relevance Feedback in IR-based Concept Location*. In Proceedings, International Conference on Software Maintenance 2009. Available from <http://greggay.com/pdf/09irrf.pdf>

2008

[1] Tim Menzies, Burak Turhan, Gregory Gay, Ayse Bener, Bojan Cukic and Yue Jiang. *Implications of Ceiling Effects in Defect Predictors*. In Proceedings, PROMISE workshop, ICSE 2008, 2008. Available from <http://greggay.com/pdf/08ceiling.pdf>

PROFESSIONAL MEMBERSHIPS

Association for Computing Machinery (ACM), Upsilon Pi Epsilon (UPE)

CURRENT AWARDS/HONORS

NSF Graduate Research Fellowship

PREVIOUS AWARDS/HONORS

Promise Scholarship, Jesse & Majorie Dalton Scholarship, Mountaineer Scholarship, MHS Class of 1942 Scholarship, College Board AP Scholar Award, West Virginia Top of the Mountain Award