Peter James Bui

131 Phillips Hall – University of Wisconsin - Eau Claire – Eau Claire, WI 54702

📞 715 836 4165   ✉ buipj@uwec.edu   🌐 cs.uwec.edu/~buipj

Education

2012	**Ph.D.**	Computer Science and Engineering	University of Notre Dame
2010	**M.S.**	Computer Science and Engineering	University of Notre Dame
2006	**B.S.**	Computer Science	University of Notre Dame

Research

Publications

2014	Robert Fisher, John Fisher, and **Peter Bui**. Dark Nebula: Using the Cloud to Build a RESTful Web Service. Midwest Instruction and Computing Symposium (MICS2014). Verona, WI. April, 2014. **Awarded Third Place**.

John Rankin, Travis Boettcher, and **Peter Bui**. A Web Portal For An Animation Render Farm. Midwest Instruction and Computing Symposium (MICS2014). Verona, WI. April, 2014. |
| 2013 | **Peter Bui**, Travis Boettcher, Nicholas Jaeger, Jeffrey Westphal. Using Clusters in Undergraduate Research: Distributed Animation Rendering, Photo Processing, and Image Transcoding. IEEE Cluster 2013 (CLUSTER2013). Indianapolis, IN. September, 2013. **Awarded Best Paper in Education, Outreach, and Training Track**.

Nicholas Jaeger and **Peter Bui**. To the Cloud and Back: A Distributed Photo Processing Pipeline. Midwest Instruction and Computing Symposium (MICS2013). La Crosse, WI. April, 2013. **Awarded Third Place**.

Jeffrey Westphal and **Peter Bui**. Scalable Distributed Image Transcoding using Python-WorkQueue. Midwest Instruction and Computing Symposium (MICS2013). La Crosse, WI. April, 2013. |

Presentations

2014

Zach Zens, Hyoki Lee, Kim Pierson, and **Peter Bui**. *Integrating MAVLink with LABView: An Arduino-based Autonomous Robotics Platform. Poster*. Celebration of Excellence in Research and Creative Activity (CERCA2014). University of Wisconsin - Eau Claire. Eau Claire, WI. May, 2014.

Justin Feiock, Corey Feiock, Nicholas Hasz, and **Peter Bui**. *Social Gaming with Chromecast. Poster*. Celebration of Excellence in Research and Creative Activity (CERCA2014). University of Wisconsin - Eau Claire. Eau Claire, WI. May, 2014.

John Rankin, Travis Boettcher, and **Peter Bui**. *A Web Portal For An Animation Render Farm. Poster*. Celebration of Excellence in Research and Creative Activity (CERCA2014). University of Wisconsin - Eau Claire. Eau Claire, WI. May, 2014.

John Fisher, Robert Fisher, and **Peter Bui**. *Dark Nebula: Using the Cloud to Build a RESTful Web Service. Poster*. Celebration of Excellence in Research and Creative Activity (CERCA2014). University of Wisconsin - Eau Claire. Eau Claire, WI. May, 2014.

Justin Feiock, Corey Feiock, Nicholas Hasz, and **Peter Bui**. *Social Gaming with Chromecast. Poster*. Midwest Instruction and Computing Symposium (MICS2014). Verona, WI. April, 2014.

2013

Peter Bui. Work Queue: A Master/Worker Framework for PDC Education and Research. Broader Engagement and HPC Educators Program at SuperComputing (SC13). Denver, CO. November, 2013.

Peter Bui. Using Work Queue Inside and Outside the Classroom. CCL Workshop (CCL13). Notre Dame, IN. October, 2013.

Peter Bui. Using HTCondor for Teaching and Research at UWEC Condor Week (CONDOR2013), University of Wisconsin. May, 2013.

James Felton, Adam Al-Ibrahim, **Peter Bui** and Chris Johnson. *Buster: Distributed Graphical Visualizations on a Budget-minded Cluster. Poster*. Celebration of Excellence in Research and Creative Activity (CERCA2013). University of Wisconsin - Eau Claire. Eau Claire, WI. May, 2013.

Jeffrey Westphal and **Peter Bui**. *Scalable Distributed Image Transcoding using Python-WorkQueue. Poster*. Celebration of Excellence in Research and Creative Activity (CERCA2013). University of Wisconsin - Eau Claire. Eau Claire, WI. May, 2013.

Nicholas Goble, Cameron Bjorklund, and **Peter Bui**. *Media Server Portal. Poster*. Celebration of Excellence in Research and Creative Activity (CERCA2013). University of Wisconsin - Eau Claire. Eau Claire, WI. May, 2013.

Nicholas Jaeger and **Peter Bui**. *Collaborating Graphical Evidence: Distributed Photo Processing. Poster*. Celebration of Excellence in Research and Creative Activity (CERCA2013). University of Wisconsin - Eau Claire. Eau Claire, WI. May, 2013.

Nicholas Jaeger and **Peter Bui**. *A Music Filled Flask: Real Time Distributed Transcoding Poster*. Celebration of Excellence in Research and Creative Activity (CERCA2013). University of Wisconsin - Eau Claire. Eau Claire, WI. May, 2013.

Travis Boettcher and **Peter Bui**. *Using Distributed Computing to Decrease Render Times. Poster*. Celebration of Excellence in Research and Creative Activity (CERCA2013). University of Wisconsin - Eau Claire. Eau Claire, WI. May, 2013.

Peter Bui. High Performance Computing at UW-Eau Claire. *Panel*. University of Wisconsin Information Technology Management Council (UW ITMC Spring 2013). Wisconsin Dells, WI. April, 2013.

James Felton, Adam Al-Ibrahim, **Peter Bui** and Chris Johnson. *Distributed Graphical Visualizations on a Bramble of Raspberry Pis*. *Poster*. Midwest Instruction and Computing Symposium (MICS2013). La Crosse, WI. April, 2013.

Grants

2013   *Enhancing and Extending DSABR: A Distributed System for Automated Blender Renderin*. Office of Research and Sponsored Programs. University of Wisconsin - Eau Claire.

A High-Perfomance Supercomputer Cluster for UW-Eau Claire. Blugold Commitment Differential Tuition.

Amazon Educational Grant. Amazon Web Services.

2012   *HPC Educator's Program*. Supercomputing 2012.

LittleFe Buildout. Supercomputing 2012.

Buster: A Budget-minded Cluster. Office of Research and Sponsored Programs. University of Wisconsin - Eau Claire.

Collaborative Animation Rendering System. Office of Research and Sponsored Programs. University of Wisconsin - Eau Claire.

Undergraduate Research Collaborators

John Fisher	2013 - 2014	URL shortening web service.
Robert Fisher	2013 - 2014	URL shortening web service.
Hyoki Lee	2013 - 2014	LabView Ardupilot.
Zach Zens	2013 - 2014	LabView Ardupilot.
Chris Haynes	2013 - 2014	Dynamic asset server.
Mitchell Wood	2013	Notification web service. Chromecast game.
Nicholas Hasz	2013 - 2014	Notification web service. Chromecast game.
Corey Feiock	2013	Notification web service. Chromecast game.

Justin Feiock	2014	Chromecast game.
Travis Boettcher	2013 - 2014	Animation render farm.
John Rankin	2013 - 2014	Animation render farm (portal).
Jeffrey Westphal	2012 - 2013	Scalable image transcoding.
Nicholas Jaeger	2012 - 2014	Distributed photo processing pipeline, real-time audio transcoding.
James Felton	2012 - 2013	Distributed graphical visualizations using Raspberry Pi's.
Adam Al-Ibrahim	2012 - 2013	Distributed graphical visualizations using Raspberry Pi's.

Independent Studies

Ben Singer	2014	HTML5 game development.
Nate Carr	2014	Linux cluster monitoring.
John Rankin	2013	Animation render farm (portal).
Cameron Bjorklund	2013	Python, web services, and multimedia streaming.
Nicholas Goble	2013	Python, web services, and multimedia streaming.
Travis Bischell	2013	Go, artificial intelligence.