

## RESEARCH & WORK EXPERIENCE

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### **Research Intern | Microsoft Research, Computational User Experiences group**

2011.06 – 2011.09, Redmond, WA

- Constructed prototypes for using machine learning techniques to infer human activities from phone sensors
- Executed several extensive data collection studies to produce large sets of sensor data
- Worked under the mentorship of A.J. Brush and Scott Saponas

### **Research Assistant | Intel Labs Seattle**

2009.10 – 2011.02, Seattle, WA

- Designed and built OASIS, an augmented-reality system for combining LEGO with projected, multimedia content
- Implemented a system for using a 3D depth camera for tracking hand gestures and objects on a surface
- Prominently demonstrated OASIS at multiple large venues, including the Intel booth at CES 2011, resulting in considerable press coverage, including Wired, CNN, Technology Review and Engadget
- Worked under the mentorship of Beverly Harrison

### **Teaching Assistant | University of Washington**

2011.04 – 2011.06, Seattle, WA

- Acted as Teaching Assistant to the introductory Human-Computer Interaction class, which is focused around an intense term-long group project
- Mentored project teams through all phases of their project, including designing interfaces and running user studies
- Led design charettes for developing and refining ideas as a group

### **Software Design Engineer in Test | Microsoft Office 2010**

2007.05 – 2009.09, Redmond, WA

- Worked on an overhaul of client/server communications in the Microsoft Office suite, enabling some key features in Office 2010 including background uploading, offline document availability, and collaborative coauthoring
- Personally responsible for the quality of the core synchronization logic and a rewritten WebDAV stack, helping move the product from preliminary planning stages through to beta
- Adopted a highly technical approach, designing and constructing a variety of tools while investigating, introducing, and evangelizing for new and unconventional testing techniques
- Developed a reputation for technical versatility and eagerness to support the technical growth of team members

### **Research Assistant | EDGELab, Dalhousie University**

2005.06 – 2006.06, Halifax, Canada

- Undertook research involving novel methods of interpersonal interaction and collaboration using technology
- Completed an optional research thesis, developing a novel technique (DeskJockey) for integrating digital data into a physical desk, resulting in a publication
- Designed and implemented a system for sharing monitors between multiple users (Swordfish) and conducted related user studies

### **Freelance Work | rbjz postindustries**

2004 – Present

- Performed freelance planning, design, and programming work for a variety of clients
- Used a diverse set of tools for a wide array of projects, including websites, content management systems, desktop applications, iOS applications, research prototypes, and others
- Developed and nurtured long-term relationships with clients

## EDUCATION

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### **University of Washington | Master of Science, Computer Science & Engineering**

2009.09 – 2011.12, Seattle, WA

- Overall GPA: 3.74 / 4.0
- Focused on the intersection of machine learning and human-computer interaction
- Supervised by Dr. James Fogarty

### **Dalhousie University | Bachelor of Computer Science with First Class Honours**

2003.09 – 2006.06, Halifax, Canada

- Overall GPA: 4.18 / 4.3
- Received the University Medal in Computing Science, awarded for the highest GPA in the graduating class
- Supervised by Dr. Kori Inkpen

## SELECTED AWARDS & FELLOWSHIPS

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### **2011 Intel Science and Technology Graduate Fellowship**

Established by Intel to support research at the Intel Science and Technology Center for Pervasive Computing

### **2009 NSERC Postgraduate Scholarship**

Provides \$17,300 in support from the National Science and Engineering Research Council of Canada for conducting high-calibre research

### **2006 University Medal in Computing Science**

Awarded for the highest GPA in the graduating class

### **2005 NSERC Undergraduate Summer Research Assistant (USRA)**

Awarded by the National Science and Engineering Research Council of Canada to introduce new undergraduate students to research

## PUBLICATIONS

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Ryder Ziola, Shweta Grampurohit, Nate Landes, James Fogarty, and Beverly Harrison. **Examining Interaction with General-Purpose Object Recognition in LEGO OASIS**. In *Proceedings of 2011 IEEE Symposium on Visual Languages and Human-Centric Computing (VLHCC 2011)*. IEEE, Pittsburgh, PA, USA, 65-68.

Ryder Ziola, Shweta Grampurohit, Nate Landes, James Fogarty, and Beverly Harrison. 2010. **OASIS: Creating Smart Objects with Dynamic Digital Behaviors**. Presented at the *International Conference on Intelligent User Interfaces Workshop on Interacting with Smart Objects (IUI 2010)*.

Ryder Ziola, Melanie Kellar, and Kori Inkpen. 2007. **DeskJockey: exploiting passive surfaces to display peripheral information**. In *Proceedings of the 11th IFIP TC 13 international conference on Human-computer interaction (INTERACT'07)*. Springer-Verlag, Berlin, Heidelberg, 447-460.

Jim Wallace, Vicki Ha, Ryder Ziola, and Kori Inkpen. 2006. **Swordfish: user tailored workspaces in multi-display environments**. In *CHI '06 extended abstracts on Human factors in computing systems (CHI EA '06)*. ACM, New York, NY, USA, 1487-1492.

Vicki Ha, Jim Wallace, Ryder Ziola, and Kori Inkpen. 2006. **My MDE: configuring virtual workspaces in multi-display environments**. In *CHI '06 extended abstracts on Human factors in computing systems (CHI EA '06)*. ACM, New York, NY, USA, 1481-1486.