# Bruce Bobier

Ph.D. student
Department of Systems Design Engineering
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## Research Positions

| | |
|---|---|
| 2006-2008 | Research Assistant for Dr. Michael Wirth at University of Guelph (Image processing and digital image restoration) |
| 2007 | Research Assistant for Dr. Judi McCuaig at University of Guelph (Assessing the usability of databases) |
| 2005 | Research Assistant for Dr. Joe Sawada at University of Guelph (Combinatoric algorithms) |
| 2004-2005 | Research Assistant for Angela Vuk at University of Guelph (Database design and development) |

## Education

| | |
|---|---|
| 2006-Present | Ph. D. – Systems Design Engineering  Theoretical Neuroscience<br>University of Waterloo, Waterloo, ON, Canada<br>Thesis: A Computational Model of Visual Attention for object recognition in natural scenes.<br>Areas of Interest: Object recognition and visual attention, computer vision, human computer interaction, image processing, statistical natural language processing |
| 2002-2006 | B.A. Honours – Computer Science<br>University of Guelph, Guelph, ON, Canada<br>Thesis: A Fast Algorithm to Generate Open Meandric Systems and Meanders. |

## Refereed Publications

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|---|---|
| 2009 | Bobier B. and Sawada J. (2009) "A fast algorithm to generate open meandric sequences and meanders." To appear in ACM Transactions on Algorithms |
| 2008 | Bobier B. and Wirth M. (2008) "Content-based image retrieval using hierarchical temporal memory." In Proceeding of the 16th ACM international Conference on Multimedia (Vancouver, British Columbia, Canada, October 26 - 31, 2008). MM 08. ACM, New York, NY, 925-928. |
| 2007 | Wirth M. and Bobier B. (2007) "Suppression of Noise in Historical Photographs Using a Fuzzy Truncated-Median Filter." International Conference on Image Analysis and Recognition. 4: 1206-1216. |

# Awards/Grants

| | |
|---|---|
| 2008-2010 | NSERC Postgraduate Scholarship-Doctoral |
| 2008-2010 | University of Waterloo President's Scholarship |
| 2008 | University of Guelph Graduate Award |
| 2004-2006 | Jay Majithia Scholarship (University of Guelph) |
| 2005-2006 | Canada Millennium Scholarship |

# Committees, Professional Affiliations and Other Activities

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| 2008 | Teaching Assistant  CIS 1500 (University of Guelph) |
| 2007-2008 | CISters (University of Guelph) |
| 2007-2008 | Royal City Computing Society (University of Guelph) |