

# DMITRY KAMENETSKY

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## Education

- **Australian National University (ANU)** — Canberra, Australia, 2006 - Now  
*PhD in Computer Science*
  - Title: Learning in the Ising Model with applications to Vision and Go
  - Supervisors: Dr. Nicol Schraudolph, Dr. Scott Sanner
- **University of Tasmania (UTAS)** — Hobart, Australia, 2005  
*First Class Honours in Computer Science*
  - Title: A Comparison of Neural Network Architectures in Reinforcement Learning in the Game of Othello
  - Supervisor: Dr. Peter Vamplew
- **University of Tasmania (UTAS)** — Hobart, Australia, 2002 - 2004  
*Bachelor of Science degree*
  - Majors: Computer Science and Mathematics
  - Result: 88% average

## Achievements

- **Awards**
  - UTAS University Medal, 2006
  - UTAS prize for best Honours presentation in Computer Science, 2005
  - UTAS Dean's Roll of Excellence for outstanding academic performance, 2002 - 2004
  - UTAS prize for greatest proficiency in the Bachelor of Science degree, 2002
  - UTAS prize for greatest proficiency in first year Physics, 2002
- **Scholarships**
  - Australian Postgraduate Award combined with a NICTA top-up scholarship, 2006
  - UTAS Computer Science Honours scholarship, 2005
  - ANU Summer Research scholarship, 2003 and 2004
  - ANU National Mathematics Summer School scholarship, 2000 and 2001
- **Publications**
  - Nicol N. Schraudolph and Dmitry Kamenetsky, *Efficient Exact Inference in Planar Ising Models*, In Advances in Neural Information Processing Systems 21 (NIPS), Cambridge, MA, to appear 2009. MIT Press. [pdf]
  - Nicol N. Schraudolph and Dmitry Kamenetsky, *Efficient Exact Inference in Planar Ising Models*, Technical Report 0810.4401, arXiv, October 2008. [pdf] [web]

- Yannick Pencolé, Dmitry Kamenetsky, and Anika Schumann, *Towards lost-cost diagnosis in large component-based systems*, In Proceedings of the Sixth IFAC Symposium, 2006. [pdf]
- Dmitry Kamenetsky, *Symmetry Groups*, UTAS Journal of Undergraduate Science and Engineering, volume 1, 2004. [pdf]

- **Workshops**

- Presented at the Machine Learning and Games Workshop, NIPS 2007. [abstract] [talk]
- Presented at the Statistical Models of Networks Workshop, NIPS 2007. [poster]

## Work Experience

- **Teaching, ANU, 2006 - 2008**

- Tutored 3rd year undergraduate class on Artificial Intelligence in 2007 and 2008. Prepared tutorials, marked assignments and exam
- Co-supervised a student during his Summer Research Program in 2006
- Worked with National ICT Australia (NICTA) outreach program in 2006 to encourage high school students to study science at University

- **3rd year software development project, UTAS, 2004**

- Project manager in a team of 5 people
- I developed a keyword search engine. The engine was able to deal with boolean expressions, filter out irrelevant common words, match synonyms and finally order the results based on their relevance to the query

## Skills

- **Operating Systems:** Linux (Debian and Ubuntu), Windows 98/2000/XP
- **Computer Languages:**
  - Proficient in Java
  - Highly familiar with C
  - Familiar with C++, Python, Visual Basic, Matlab, Bash Shell, MySQL

## Computer Competitions

- **TopCoder:**
  - Username: dimkadimon
  - Best Rating: 1686; Best Rank and Percentile: 400th and top 9.56% in the world
  - Administered 3 matches, wrote 6 problem sets, wrote 2 match editorials and 2 articles
- **ACM-ICPC Contest:** State Champions (2004), Second in State (2003 and 2005)
- **Al Zimmermann's Contests:**
  - Competed in 5 contests, finished on average in top 16%
  - Problem writer for one contest and beta-tester for 2 contests

## References

- **Dr. Nicol Schraudolph:** nic@schraudolph.org
- **Dr. Scott Sanner:** scott.sanner@nicta.com.au