

Julian de Hoog

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Education

- 2007– **DPhil Computer Science**, *University of Oxford*. Oxford, UK.
Research involves communication-limited exploration algorithms for teams of mobile agents. The long term goal is application to teams of search-and-rescue robots.
Supervisor: Dr. Stephen Cameron.
- 2006–2007 **MSc Computer Science**, *University of Oxford*. Oxford, UK.
Distinction, A+ for thesis.
Title of thesis: Machine Learning Techniques Applied to Multi-Agent Cooperation.
Supervisor: Dr. Stephen Cameron.
- 2000–2004 **BSc Computer Science and Mathematics**, *McGill University*. Montreal, Canada.
Great Distinction, GPA 3.71 out of 4.00.
Minor Concentration in Philosophy.

Awards and Distinctions

Grants and Scholarships

- March 2008 **Sasakawa Grant**, *University of Oxford*. Oxford, UK
Awarded £1,850 to spend 16 days visiting robotics institutions and universities in Japan.
- April 2007 **DTA studentship**, *Engineering and Physical Sciences Research Council*. UK.
Funding covers fees and maintenance grant for study towards a PhD at the University of Oxford.
- June 1999 **McConnell Entrance Scholarship**, *McGill University*. Montreal, Canada.
Maintained a minimum GPA (3.50) that warranted renewal in each of three subsequent years of eligibility (\$3,000 per year).
- July 1998 **Second Century Scholarship**, *Ashbury College*. Ottawa, Canada.
(\$1,500 per year).

Competitions

- July 2009 **RoboCup 2009**. Graz, Austria.
Placed 3rd (out of 12) in the Virtual Robots League.
- June 2009 **British Computer Society**, *Student Contest*. London, UK.
Placed 3rd (out of 12), won the Award for Innovation.
- July 2008 **RoboCup 2008**. Suzhou, China.
Placed 7th (out of 10) in the Virtual Robots League.
- 2006 & 2007 **FIRA Robot Football UK National Championships**. London & Warwick, UK.
Placed 2nd (out of 7) in the simulation category.

Publications

- November 2009 **J. de Hoog, S. Cameron and A. Visser,**
Role-Based Autonomous Multi-Robot Exploration.
Proceedings of Cognitive2009: The First International Conference on Advanced Cognitive Technologies and Applications. Athens, Greece. To Appear.
- October 2009 **H. Flynn, J. de Hoog and S. Cameron,**
Integrating Automated Object Detection into Mapping in USARSim.
Proceedings of the IEEE/RSJ International Conference on Intelligent Systems and Robots. St.Louis, USA.
- July 2009 **A. Visser, G. de Buy Wenniger, H. Nijhuis, F. Alnajar, B. Huijten, M. van der Velden, W. Josemans, B. Terwijn, R. Sobolewski, H. Flynn, M. Jankowska and J. de Hoog,**
Amsterdam Oxford Joint Rescue Forces - Team Description Paper - Virtual Robot competition - Rescue Simulation League - RoboCup 2009.
Proceedings CD of the 13th RoboCup Symposium. Graz, Austria.
- September 2008 **J. de Hoog, S. Cameron and A. Visser,**
Robotic Search-and-Rescue: An Integrated Approach.
Proceedings of the Oxford University Computing Laboratory Student Conference. Oxford, UK.
- July 2008 **A. Visser, T. Schmits, S. Roebert and J. de Hoog,**
Amsterdam Oxford Joint Rescue Forces - Team Description Paper - Virtual Robot competition - Rescue Simulation League - RoboCup 2008.
Proceedings CD of the 12th RoboCup Symposium. Suzhou, China.

Presentations

- 4 Jul 2009 **The 2009 approach of the Amsterdam Oxford Joint Rescue Forces,**
RoboCup 2009, Graz, Austria
- 3 Feb 2009 **The USARSim Simulation Environment,**
Oxford University Computing Laboratory ROSS Seminar Series
- 13 Nov 2008 **Robots in Japan: the State of the Art,**
Oxford University Computing Laboratory 'Cakes Talk'
- 17 Oct 2008 **Robotic Search-and-Rescue: An Integrated Approach,**
Oxford University Computing Laboratory Student Conference.
Won best presentation.
- Jul-Aug 2008 **Role-assigned multi-robot exploration,**
Various universities in Japan (University of Electro Communications, University of Tsukuba, University of Tohoku, Tokyo Institute of Technology, Osaka Prefecture University, Osaka University)

- 19 Jul 2008 **The 2008 approach of the Amsterdam Oxford Joint Rescue Forces,**
RoboCup 2008, Suzhou, China
- Jun 2008 – **Amsterdam Oxford Joint Rescue Forces: Oxford’s team at RoboCup Rescue,**
Sep 2009 *Oxford University Computing Laboratory Open Days*
- 18 Oct 2007 **Machine learning techniques applied to multi-agent cooperation,**
Essex-Oxford Joint Robotics Workshop, University of Essex

Teaching

- Oct–Dec 2009 **Computer Animation,**
Three regular lectures
- Oct–Dec 2009 **Intelligent Systems I,**
Demonstrator for Practical sessions
- Mar–Sep 2009 **MSc Projects,**
Contributed to supervision of three MSc students’ projects
- Oct–Dec 2008 **Intelligent Systems I,**
Demonstrator for Practical sessions, one regular lecture

Employment

- 2004 – **Website Design and Development (part-time)**
Past projects include the development of e-learning courses for both the Canadian Department of Foreign Affairs and the Foreign Ministry, Ukraine.
- Oct 2006 – **Computing Assistant, Exeter College.** Oxford, UK.
Dec 2007 Responsibilities included network maintenance and troubleshooting of various network and computer problems.
- Oct 2006 – **Exeter House President, Exeter College.** Oxford, UK.
Sep 2007 As President of Exeter College’s graduate accommodation I represented 58 students at College meetings and was a member of the Exeter Graduate Students’ Executive Committee.

Skills

- Programming Advanced: Java, C, C++, Visual Basic, Matlab
 Basic: CSP & FDR, Fortran, Pascal, Basic, Mathematica
- Operating Windows, Mac, Linux
Systems
- Web HTML, Javascript, CSS, PHP; Adobe Dreamweaver
development
- Graphic design Adobe Photoshop

Document editing and manipulation OpenOffice, Microsoft Office, Adobe Acrobat Professional

Languages

English Fluent
German Fluent
French Conversant
Spanish Basic

Extra-curricular

Ice Hockey University Varsity Team Captain (2008–2009), awarded University of Oxford's "Full Blue", won the national championship (2009), Oxford's man-of-the-match in the annual Varsity Match against Cambridge (2006 & 2007), Club Treasurer (2006–2007).

Rowing Exeter College Novice A rowing crew: won the annual Christchurch Regatta, defeating 73 other crews (2005)

Volunteering Acted as Area Coordinator for the Arthritis Society, managing 22 canvassers over a zone containing 710 addresses (Ottawa, Canada, September 2004)