Jeremiah M. Via

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Education

2012

BSc in Artificial Intelligence & Computer Science (First Class Honours)
University of Birmingham, United Kingdom
ADVISORS: Nick Hawes; Jeremy Wyatt

Key classes:

- **machine learning**: q-learning, probabilistic latent semantic analysis, independent component analysis, decision tree learning, k-nearest neighbors, case-based reasoning, support vector machines
- **natural computation**: game theory, cellular automta, ant colony optimization, random walks, evolutionary algorithms, market-based control, self-orgsnizing maps, particle swarm optimization
- **natural language processing**: morphological analysis, pos tagging, DCG parsing, active chart parsing, recursive transition networks, quasi-logical forms
- **computer vision**: edge detection, noise filtering, hough transform, eigenfaces, object recognition, feature detection
- **intelligent robotics**: control theory, markov decision processes, behavior-based control
- **intelligent data analysis**: principle component analysis, self-organizing maps, model-based data clustering, latent semantic indexing, PageRank
- **neural computation**: hebbian learning, gradient descent learning, back-propagation, conjugate gradient learning, recurrent neural networks, radial basis function networks, self organizing maps, learning vector quantization, committee machines, mixture models

2009

AS in Computer Programming (3.83 GPA)
Grossmont College, USA

Emphasis on Java, C++, x86, and softwware engineering

Appointments Held

1. RESEARCH

2011

Research Institute for Cognition and Robotics
Summer Research Intern, Universität Bielefeld

Intelligent Robotics Lab
Summer Research Intern, University of Birmingham

2. TEACHING

2012

University of Birmingham
Teaching Assistant
Robot Programming

Grants *&* Awards

2011   Ede *&* Ravenscroft Travel Bursary
Student Development Scholarship
Nuffield Foundation Science Bursary

2010   British Computing Society Tammal Hussein Memorial Prize
School of Computer Science Excellency Scholarship

2009   School of Computer Science Excellency Scholarship
Best First Year Computer Science Student
President's List (4.0 GPA)

2008   Vice-President's List (3.5 GPA)
Vice-President's List (3.5 GPA)

2007   Vice-President's List (3.5 GPA)

Activities

Vice-Chancellor Seminar Series
Birmingham Autonomous Robot Club

IT *&* Programming Skills

Programming languages (Java, Common Lisp, Prolog, C/C++).
Scripting languages (Python, shell).
Markup languages (HTML, CSS, XML, XSD, JSON).
Qery languages (SQL).
Data analysis (Matlab).
Revision control (Git, Subversion).
Digital typesetting (TeX, LaTeX, XeTeX).

Languages

English (native speaker)
Spanish (conversational fluency)