Simon Lacoste-Julien

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Objective

Summer research internship where I could apply machine learning techniques.

Education

University of California, Berkeley - Berkeley, CA
Ph.D. student in Computer Science
RELEVANT COURSEWORK:
- statistical learning
- graduate probability
- advanced topics in learning and decision making,
- computer vision seminars on shape and object recognition

08/2003 - present

McGill University - Montreal, Canada
B.Sc. Triple major in Mathematics, Physics and Computer Science
First Class Honours in Math. & Physics *Anne Molson Gold Medal* (best in math)
First Class Honours in Math. & CS *Dean's Honour List*
GPA: 3.96 / 4.00
09/1999 – 04/2003

Research Experience

2003-2004 **U.C. Berkeley, Statistical Artificial Intelligence Laboratory (SAIL)**
Course projects under the supervision of Prof. Peter Bartlett and Prof. Michael Jordan
- Currently studying how to use probabilistic correlation information in kernel methods for classification as well as trying to use them in Computer Vision

Summer 2002 **McGill University, Modelling, Simulation and Design Laboratory (MSDL)**
Research on Hybrid Systems modelling and simulation with Prof. Hans Vangheluwe
- Implemented a visual modelling and simulation environment for Hybrid Systems with differential algebraic equations support in Python
- Invented a new visual formalism to model hybrid systems (to be published in September 2004) (reports and code are available on my McGill web site)

Summer 2001 **McGill University, Reasoning and Learning Laboratory**
Research on Delay Differential Equations with Prof. Prakash Panangaden
- Studied the existence and stability properties of DDEs in analogy with a weak dataflow fixed point existence theorem

Scholarships

Berkeley:
- **Graduate Fellowship** (16900$) 2003-2004

Canadian:
- **NATEQ Scholarship** *ranked first in mathematical sciences* (15000$ for 2 years) 2003-2004
- **NSERC Postgraduate Scholarship** (17300$ for 2 years) in 2003 (declined)
- **NSERC University USRA** (5000$ for summer research); twice in 2001 & 2002; declined in 2003

McGill:
- **Moyse Travelling Scholarship** *only one awarded in Science* (11000$ to study abroad) in 2003
- **IT Fellowship** (17500$ for a Master in CS) in 2003 (declined)
- **Sir Edward Beatty Memorial Scholarship** (750$ for excellence in math.) twice, in 2001 & 2002
- **Anne Molson Scholarship** (1000$ for excellence in physics) in 2001-2002
- **J.W. McConnell Entrance Scholarship** (3000$ renewed for 4 years from 1999 to 2003)

Skills

Languages (artificial): • C, Python, Matlab, Java, Scheme
Languages (human): • Fluent in French & English; elementary knowledge of Spanish & German
Leadership:
- **Team captain** of intramural graduate EECS soccer team at Berkeley for 2003-2004
- **Vice-President Internal** of the McGill Society of Physics Students in 2001-2002: maintained an e-journal for internal communication; organized talks; took care of student facilities

Communication: • Was a teaching assistant for two courses at McGill University as well as a mathematics tutor; gave several talks in conferences and research group meetings
Life balance: • Swing dancing, piano, guitar, biking, soccer, ski, badminton, philosophy.