

GIA VINH ANH PHAM

CONTACT DETAILS	Mobile: (+1) 510-499-9533 — Email: vinhanh@gmail.com — URL: http://vinhanh.net
CAREER OBJECTIVES	To become a researcher in theoretical computer sciences at a leading research-based university or an industrial laboratory, and to conduct research that has significant impact on technology community as well as to produce high-quality and advanced software for industry.
EDUCATION	<ul style="list-style-type: none">◇ University of California - Berkeley, USA. PhD in Computer Science 2008 - present<ul style="list-style-type: none">· Advisor: Professor Laurent El Ghaoui ◇ University of Sydney, Australia. Bachelor of Information Technologies (Honours) 2004 - 2007<ul style="list-style-type: none">· Thesis: <i>Algorithms for Labeling Markov Random Fields</i>· Advisor: Professor Sanjay Chawla· <i>First Class Honours with University Medal</i> ◇ Hanoi National University of Science, Vietnam. 2002 Honours Program (Mathematics) ◇ Hanoi National University of Education, Vietnam. 1999 - 2002 High School for Gifted Students (Mathematics). ◇ Tran Phu Talented School, Haiphong, Vietnam 1995 - 1999 Specialized in Mathematics
AWARDS & HONOURS	<ul style="list-style-type: none">University of California - Berkeley, USA<ul style="list-style-type: none">◇ Awarded Regents Fellowship, University of California 2008 University of Sydney, Australia<ul style="list-style-type: none">◇ Awarded First Class Honours with University Medal 2007◇ Placed on the Dean's List of Excellence in Academic Performance 2004 - 2007◇ Placed on High Honor List, School of Information Technologies 2004 - 2007◇ Admitted by the Dean to the Science Talented Student Program (TSP) 2004 - 2006◇ Recipient of School of Information Technologies Summer Research Scholarship 2004 - 2007◇ Recipient of School of Mathematics & Statistics Summer Research Scholarship 2004 - 2005◇ Awarded Nobert Quirk Prize, School of Mathematics & Statistics 2004 - 2005◇ Awarded Thomson Learning Publisher prize for Junior Mathematics 2004 ◇ <i>Winner of Australian Development Scholarship</i> 2003◇ Recipient of Vietnamese Prime Ministers Award for Excellence 2002◇ Recipient of Vietnamese Minister of Education and Trainings Award for Excellence 2002◇ Winner of Vietnamese Mathematics Association - Le Van Thiem Prize 2002◇ <i>Winner of Gold Medal in 43rd International Mathematic Olympiad (IMO) in Glasgow, United Kingdom. Ranked 10th (out of 479 participants) worldwide.</i> 2002◇ Winner of third prize in Vietnamese Mathematical Olympiad 2002◇ Winner of second prize in Vietnamese Mathematical Olympiad 2001

- RESEARCH INTERESTS
- ◇ Statistical machine learning, online learning, data mining, pattern recognition
 - ◇ Convex optimization, robust optimization, distributed optimization, combinatorial optimization
- PUBLICATION
- ◇ 2008 - Pei Sun, Sanjay Chawla, Timothy de Vries, Gia Vinh Anh Pham. *Disk-Based Sampling for Outlier Detection in High Dimensional Data*. Proceedings of the 14th International Conference of the Management of Data - COMAD 2008.
 - ◇ 2008 - Bojan Djordjevic, Joachim Gudmundsson, Anh Pham and Thomas Wolle. *Detecting regular visit patterns*. Proceedings of the 16th Annual European Symposium on Algorithms - ESA 2008.
 - ◇ 2007 - Gia Vinh Anh Pham. *Algorithms for labeling Markov Random Fields*. Honours thesis, School of Information Technologies, University of Sydney 2007.
 - ◇ 2007 - Aditya Krishna Menon, Gia Vinh Anh Pham, Sanjay Chawla and Anastasios Viggas. *An incremental data stream sketch using random projections*. Proceedings of the 2007 SIAM International Conference on Data Mining.
- INDUSTRY & RESEARCH EXPERIENCE
- ◇ **Quantcast Corporation, San Francisco, USA** 2010 - present
 - *Consultant* - work on large dataset analysis (using Map-Reduce framework) and optimize ads targeting models.
 - ◇ **Twist & Twirl Consulting, CA, USA** 2010 - 2011
 - *Consultant* - work on web solutions for small businesses: Bluehawk Networks, WCPM, PC Monde, Scholtes & Fong LLP etc.
 - ◇ **Working Software, Australia** 2006 - 2009
 - *PHP Developer* - participate in projects developing various websites: NSW Veterinary Practitioners Board, What's Open, Giddy Up etc.
 - ◇ **Capital Market CRC/Insurance Australia Group (IAG)** 2007 - 2008
 - *Research Student* - work on fraud detection in insurance.
 - ◇ **Highlight Solutions Pty Ltd, Australia** 2007 - 2008
 - *VB/VBA Programmer* - develop pharmacy/medical-related application software.
 - ◇ **National ICT Australia (NICTA)** 2007
 - *Research Assistant* - work on Data mining in spatio-temporal data (DMiST) project.
 - ◇ **SUN Microsystems** 2006 - 2007
 - *Campus Ambassador* at the University of Sydney.
 - ◇ **Institute of Transport and Logistics Studies, University of Sydney** 2006 - 2007
 - *Research Assistant* - work on algorithms for logistics/supply chain & econometric problems.
 - ◇ **Summer Internship Research**
 - Department of EECS, University of California - Berkeley*
 - Robust optimization (with Prof Laurent El Ghaoui) 2009
 - School of Information Technologies, University of Sydney*
 - Capital Market Cooperative Research Centre project: data mining in insurance. 2007
 - Understanding imbalanced learning from machine learning and data mining. 2006
 - Health informatics: text and data mining of general practice records. 2005
 - Data stream algorithms and representation of monitored data stream model. 2004
 - School of Mathematics and Statistics, University of Sydney*
 - Neural networks in the rat whisker barrel. 2005
 - Low density parity check coding (LDPC). 2004
 - Major development project - awarded best project prize.* 2006
 - Night-time vehicle detection and tracking in surveillance video (with National ICT Australia)

- TEACHING EXPERIENCE
- ◇ **Teaching Assistant**, EECS - UC Berkeley
 - CS61B - Data Structures and Advanced Programming (Prof. Paul Hilfinger) 2011
 - EE227A - Convex Optimization (Prof. Laurent El Ghaoui) 2010
 - EE127A - Optimization Models in Engineering (Prof. Laurent El Ghaoui) 2010
 - EE227A - Nonlinear & Convex Optimization (Prof. Martin Wainwright) 2009
 - CS188 - Introduction to Artificial Intelligence (Prof. Dan Klein) 2008
 - ◇ **Teaching Assistant**, School of IT - University of Sydney
 - COMP5338 - Advanced Data Models (4th year/master course) 2007
 - INFO2120 - Databases Systems 1 (2nd year course) 2007
 - COMP3306 - Algorithms (3rd year course) 2007
 - SOFT1002 - Software Development 2 (1st year course) 2006
- LEADERSHIP EXPERIENCE
- ◇ **Member** of Golden Key International Honour Society. 2005 - present
 - ◇ **Student societies**
 - **Industry Liason** of Sydney University Information Technologies Society 2007
 - **Secretary** of the Programming Competition Society, Sydney University 2006 - 2007
 - ◇ **Leader** of Information Sustainability-Email Extraction project 2006
 - Lead a team of five first year Talented Student Program (TSP) students
 - Organize and lead weekly meeting, presentation, showcase; manage the flow of the project.
 - ◇ **Member** of FPT Center for Young Talents - FYT (Vietnam) 2002 - 2004
- RELEVANT COURSES
- ◇ **UC Berkeley**
 - CS281A - Statistical Learning Theory
 - CS281B - Advanced Topics in Statistical Learning Theory
 - EE227A - Nonlinear and Convex Optimization
 - IEOR269 - Integer Programming & Combinatorial Optimization
 - MATH221 - Advanced Matrix Computations / Numerical Linear Algebra
 - CS270 - Combinatorial Algorithms and Data Structures
 - STAT212 - Statistical Inference in High-Dimensional Settings
 - EE2900 - Distributed Optimization
- SKILLS
- ◇ **Technical Skills**
 - Programming languages: Java, C++, Python, VB/VBA, PHP, MATLAB, R.
 - Experience with distributed programming, MapReduce framework.
 - Excellent mathematical skills, both in research and computation.
 - ◇ **Social Skills**
 - Comfortable working independently or in the team environment
 - Fast learner, punctual, responsible and organized
 - Excellent analytical skills
 - Fluent in written and spoken English, Vietnamese.