

# GIA VINH ANH PHAM

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403 Cory Hall, Berkeley CA 94720, USA
- 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
- ◇ **University of California - Berkeley, USA.**      2008 - present  
PhD in Computer Science  
· Advisors: Professor Laurent El Ghaoui and Professor Peter Bartlett.
  - ◇ **University of Sydney, Australia.**      2004 - 2007  
Bachelor of Information Technologies (Honours)  
· Thesis: *Algorithms for Labeling Markov Random Fields* (Advisor: Professor Sanjay Chawla)  
· ***First Class Honours with University Medal***
  - ◇ **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
- University of California - Berkeley, USA**
- ◇ Awarded Regents Fellowship, University of California      2008
- University of Sydney, Australia**
- ◇ 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
  - ◇ ***Winner of Australian Development Scholarship***      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
  - ◇ ***Winner of Gold Medal in 43<sup>rd</sup> International Mathematic Olympiad (IMO) in Glasgow, United Kingdom. Ranked 10<sup>th</sup> (out of 479 participants) worldwide.***      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, 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 Vigiias. *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 - present
    - *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 A.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
    - EE127A - Optimization Models in Engineering 2010
    - EE227A - Convex Optimization (graduate course) 2009
    - CS188 - Introduction to Artificial Intelligence 2008
  - ◇ **Teaching Assistant**, School of IT - University of Sydney
    - COMP5338 - Advanced Data Models (4<sup>th</sup> year/master course) 2007
    - INFO2120 - Databases Systems 1 (2<sup>nd</sup> year course) 2007
    - COMP3306 - Algorithms (3<sup>rd</sup> year course) 2007
    - SOFT1002 - Software Development 2 (1<sup>st</sup> 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 - Matrix Computations / Numerical Linear Algebra
    - CS270 - Combinatorial Algorithms and Data Structures
    - CS267 - Applications of Parallel Computers
    - STAT212 - Statistical Inference in High-Dimensional Settings
- SKILLS
- ◇ **Technical Skills**
    - Programming languages: Java, C++, Python, VB/VBA, PHP, ASP, MATLAB, R.
    - Database: XML, SQL, MS Access, Oracle, MySQL.
    - Operating systems: UNIX/Linux, Mac OS and Windows.
    - 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.