Nithin Michael
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Education

Cornell University, Ithaca, NY
MS\Ph.D. in Electrical Engineering, August 2008 – August 2013
Cumulative GPA: 4.12/4.00

Drexel University, Philadelphia, PA
Bachelor of Science in Electrical Engineering (*summa cum laude)* June, 2008
Cumulative GPA: 4.00/4.00, Dean's List (2003 – 2008)

Honors and Awards

• Jacobs Fellowship (Cornell University), 2008, 2010
• 1st Honors (ECE, Drexel University) 2008
• Highest Academic Achievement Award (Drexel University), 2008
• Senior Design Competition (ECE, Drexel University) – First Place, 2008
• William L. Everitt Student Award of Excellence (International Engineering Consortium), 2008
• HKN Outstanding ECE Student Award Program, Honorable Mention, AY 2007- 2008
• TBP Record Scholarship, 2007
• Harry Muchnic Scholarship 2006, 2007
• Dean's Scholarship ($90,000 – five year award, Drexel University), 2003
• Honors Societies: HKN, TBP

Work, Research and Teaching Experience

Waltz Networks, Inc., Ithaca, NY
President, ***October 2013 – present,*** *CEO,* ***June 2015 - present***
• Handle product design and architecture, PI on $150,000 NSF Phase I SBIR grant
• Handle daily operations and management, investor relations and recruitment
• Lead customer acquisition and interaction

Cornell University, Ithaca, NY
PhD Student (Adviser: Dr. Kevin Tang), ***August 2008 to August 2013****, Postdoctoral Scholar,* ***August 2013 – July 2015***
• First to develop an optimal distributed link-state hop-by-hop routing algorithm
• First to develop an algorithm that achieved logarithmic regret in the multi-armed bandit problem with competition
• Co-instructor for Control and Optimization of Information Networks, TA for Computer Networks and Telecommunications

Viking Global Investors, Greenwich, CT
Summer Intern, ***June 2011 to August 2011***
• Restructured firm P&L calculation and reporting
• Built a stock loan billing reconciliation system to track Viking's short positions worth $8 billion
• Developed tools to flag suspicious trades and to identify when soft dollar commission thresholds were crossed

Data Fusion Laboratory, Drexel University, Philadelphia, PA
Research Assistant, Teaching Assistant (Adviser: Dr. Moshe Kam), ***June 2005 to June 2008***
• Found methods to improve data fusion algorithms in distributed detection networks
• Worked on developing echo cancellation algorithms for through the bulkhead communications for the Navy
• Taught sophomore recitation sections for Systems of Differential Equations

Siemens Medical Solutions, Malvern, PA
Software Developer, ***September 2004 to March 2005 & September 2005 to March 2006***
• Developed an automated process for EJB web service generation for the Soarian Target Architecture
• Worked on the internationalization of the Soarian Scheduling application
• Updated and restructured application related databases

Patents & Publications

"HALO: Hop-by-hop Adaptive Link-state Optimal Routing"
by N. Michael and A.K. Tang
accepted to *IEEE Transactions on Networking*, July 2014

"Optimal Link-state Hop-by-hop Routing"
by N. Michael, A.K. Tang and D. Xu
Proc. of ICNP 2013 (Goettingen, Germany), October 2013

"Quadrisection Based Task Mapping on Many-Core Processors for Energy-Efficient On-Chip Communication"
by N. Michael, Y. Wang, G. E. Suh and A.K.Tang
Proc. of ACM/IEEE NOCS, (Tempe, USA), April 2013

"On the Performance of Averaged Optimal Routing"
by N. Michael, A.K. Tang and E. Suh
Proc. of CISS, (Princeton, USA), March 2012

"Analysis of Application-Aware On-Chip Routing Under Traffic Uncertainty"
by N. Michael, M. Nikolov, A.K. Tang, E. Suh and C. Batten
Proc. of ACM/IEEE NOCS, (Pittsburgh, USA), May 2011

"Distributed Learning and Allocation of Cognitive Users with Logarithmic Regret"
by A. Anandkumar, N. Michael, A.K. Tang, and A. Swami.
IEEE Journal on Selected Areas in Communications, 29(4):731-745, April 2011.

"Opportunistic Spectrum Access with Multiple Users: Learning under Competition"
by A. Anandkumar, N. Michael, and A.K. Tang.
in *Proc. of IEEE INFOCOM*, (San Diego, USA), Mar. 2010.

System and Method for Improved Network Routing – N. Michael & A. Tang (Provisional Patent), 2012

Relevant Coursework, Computer Skills and Languages

Combinatorial Optimization, Mathematical Programming, Detection and Estimation, Information Theory, Fundamentals of Networks, Real Analysis, Control and Optimization of Information Networks, Chip-Level Interconnection Networks, Advanced Topics in Network Information Flow, Non-Linear Dynamics and Chaos
Computer Skills - C/C++, Java, SQL, Microsoft .NET Framework, JavaScript, Perl, Ruby, Python, Matlab, ASP, XML, VB
Languages – Malayalam (Native), Hindi (Fluent), English (Fluent), French (Fluent)

Extracurricular Activities and Accomplishments

Engineering Graduate Students Association, Cornell University
President, 2011 – 2012 & Treasurer 2010 – 2011

IEEE Philadelphia Section Executive Committee
*Student Representative – **2008***

IEEE Student Branch, Drexel University
*Vice President – **2006, 2007, 2008***

HKN Beta Alpha Chapter, Drexel University
*President – **2007, 2008***

Undergraduate Student Government Association (USGA), Drexel University
*Senator, **2005***

Other Activities

Chess (National Chess Congress 2003, Philadelphia – First Place (Unrated)), Break dancing, Fencing, Salsa, Wines, Stock and Options Trading, Bridge to **BCG**