

# David T. Nguyen, Ph.D.

(legal name: Dung Nguyen Tien; updated June 28, 2016)

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http://davidnguyen.cz

**Research Areas:** ubiquitous computing, mobile computing, networking

**Highlights:** First-author papers in MobiSys and UbiComp / 5 US patents / UbiComp 2015 and ISWC 2015 Social Media Chair / Program Committee of 13 conferences / University lecturer for 2 years / \$100K grant award / Papers used for research and teaching by world-class universities and labs (Stanford, CMU, MSR, etc.)

## Education

- **College of William and Mary** Williamsburg, VA  
*Ph.D., Computer Science* 2016
- **Suffolk University** Boston, MA  
*M.S., Computer Science* 2010
- **Stanford University** Palo Alto, CA  
*Visiting Graduate Student, Computer Science* 2009
- **Charles University** Prague, Czech Republic  
*B.S., Computer Science and Mathematics* 2007

## Work Experience

- **Facebook** Menlo Park, CA  
*Research Scientist* August 2016 -
- **Facebook** Menlo Park, CA  
*Mobile Engineering Intern* Summer 2014 and 2015
  - Invited to work at Facebook after their researchers learned about MobiSys publications
  - Led project on smartphone performance optimizations (19% performance boost)
  - Contributed to successful prototyping of a novel IoT system
  - Three first-author U.S. patents
  - Got a full-time job offer
- **Christopher Newport University** Newport News, VA  
*Lecturer* January 2013 - May 2013
  - Course Instructor: Data Communication Systems
  - Course Instructor: Computers & Programming I Laboratory
- **Suffolk University** Boston, MA  
*Lecturer* 2009 - 2011
  - Course Instructor: Programming for the World Wide Web
  - Course Instructor: Precalculus for Management and Social Sciences

## Publications

20+ academic publications

Complete list at <http://davidnguyen.cz/publications>

## Patents

1. **David T. Nguyen**, Franci Penov, George Yakovlev, Damian Kowalewski, Eran Tal  
*Method for Enabling Internet Access using Wireless Connection*  
[**U.S. Patent '15 (with Facebook)**], Filed in July, 2015 (provisional)
2. **David T. Nguyen**, Franci Penov, George Yakovlev, Damian Kowalewski, Eran Tal  
*Method for Transferring Data in Non-paired Mode using Wireless Connection*  
[**U.S. Patent '15 (with Facebook)**], Filed in July, 2015 (provisional)
3. **David T. Nguyen**, Fraidun Akhi, Jonathan R. Cook  
*Methods and Systems for Managing Memory Allocation*  
[**U.S. Patent '15 (with Facebook)**], Filed in March, 2015; Application No. US 14/670,026 (pending)
4. **David T. Nguyen**, Gang Zhou  
*Method for Reducing Electronic Device Application Delay Using Read/Write Isolation*  
[**U.S. Patent '15 (with William & Mary)**], Filed in January, 2015; Application No. US 62/103,120 (pending)
5. **David T. Nguyen**, Gang Zhou, Xin Qi  
*Method of Conserving Power Based on Electronic Devices I/O Pattern* [PDF]  
[**U.S. Patent '12 (with William & Mary)**], Filed in December, 2012; Published in May, 2015; Publication No. US 9,026,819 B2 (used legal name 'Dung Nguyen Tien')

## Service

### Social Media Chair:

*ACM UbiComp*, Osaka, Japan, 2015 ([link](#))

*IEEE ISWC*, Osaka, Japan, 2015 ([link](#))

### Technical Program Committee:

*IEEE PICom*, Auckland, New Zealand, 2016 ([link](#))

*IEEE FiCloud*, Vienna, Austria, 2016 ([link](#))

*IEEE PICom*, Liverpool, UK, 2015 ([link](#))

*IEEE GSCIT*, Sousse, Tunisia, 2015 ([link](#))

*IEEE FiCloud*, Rome, Italy, 2015 ([link](#))

*SSCC*, Kerala, India, 2015 ([link](#))

*IARIA UBICOMM*, Nice, France, 2015 ([link](#))

*SEEE*, Phuket, Thailand, 2015 ([link](#))

*IET CASEV*, Astana, Kazakhstan, 2015 ([link](#))

*IEEE ISSPIT*, Abu Dhabi, UAE, 2015 ([link](#))

*GRS*, Williamsburg, USA, 2015 ([link](#))

*IEEE GSCIT*, Sousse, Tunisia, 2014 ([link](#))

*IARIA UBICOMM*, Rome, Italy, 2014 ([link](#))

*IEEE ICACCI, CloudCrypto workshop*, Delhi, India, 2014 ([link](#))

*GRS*, Williamsburg, USA, 2014 ([link](#))

**Reviewer of 30+ International Conferences:**

Complete list at <http://davidnguyen.cz/service>

**Reviewer of 4 International Journals:**

Complete list at <http://davidnguyen.cz/service>

**Awards and Honors**

Project “Reducing Smartphone Application Delay through Read/Write Isolation” received grant award totaling \$100K (CRCF FY2015: CIT MF15-032-IT, Dr. Zhou applied on behalf of my first-author project)

Outstanding Reviewer Award, Elsevier Computer Networks Journal, 2015

Graduate Studies Fellowship, W&M, 2014, 2015 (7 grad students)

NSF Conference Grant Award, 2014, 2015

Stephen K. Park Graduate Research Award, W&M, 2014 (1 computer science student)

ACM UbiComp Grant Award and ACM MobiSys Grant Award, 2014

Named one of the Forbes top Czech programmers, 2014

Honorable Mention Award for Excellence in Scholarship, W&M, 2014 (4 sciences students)

ACM Sigmobility Grant Award, 2013

Best Email Client for Mobile Phones (mujMail), Cell Plugin, 2010

**Talks**

1. *Reducing Smartphone Application Delay through Read/Write Isolation*  
ACM MobiSys '15, Florence, Italy, 2015 (program)
2. *Improving Smartphone Responsiveness through I/O Optimizations*  
ACM UbiComp '14, Seattle, USA, 2014 (program)
3. *Storage-aware Smartphone Energy Savings*  
ACM UbiComp '13, Zurich, Switzerland, 2013 (program)  
Invited lecture, CS780 Sensors and Ubiquitous Computing class, W&M, 2014
4. *Evaluating Impact of Storage on Smartphone Energy Efficiency*  
ACM UbiComp '13, Doctoral School, Zurich, Switzerland, 2013 (program)

**Software**

- **Hungry Monkey Game** 2016  
*iOS game in Swift*  
– App Store download link: <https://goo.gl/Eo9Kek>
- **StoreBench** William & Mary, USA  
2013 - 2014  
*Android storage benchmark*  
– Top 3 storage benchmarks (Google Play, May 2014)  
– Homepage: <http://storebench.com>
- **mujMail** Charles University, CZ  
2007 - 2010  
*J2ME email client for portable devices*  
– Best email client for mobile phones (Cell Plugin, 2010)  
– 2nd best J2ME application (Software Cooperative News, 2009)  
– Homepage: <http://mujmail.org>