

Nicholas L Farnan

Curriculum Vitae

Last updated: 26 August, 2018

Positions Held

- 2015-Present **Lecturer**, *University of Pittsburgh*, Department of Computer Science.
- 2014-2015 **Visiting Lecturer**, *University of Pittsburgh*, Department of Computer Science.
- 2016-Present **College in High School Liaison for CS0008**, *University of Pittsburgh*.
- 2014-2018 **College in High School Liaison for CS0007**, *University of Pittsburgh*.

Education

- 2008-2014 **Ph.D. Computer Science**, *University of Pittsburgh*, Advisor: Adam J. Lee, Dissertation: *Efficient, Locally-Enforceable Querier Privacy for Distributed Database Systems*.
- 2004-2007 **B.S. Computer Science**, *University of Pittsburgh*, Minor in Japanese, *CS GPA – 3.73*.

Awards and Honors

- 2014 **Orrin E. and Margaret M. Taulbee Award for Excellence in Computer Science**, Recognizes teaching excellence and academic progress towards a Ph.D.
- 2014 **Dietrich School of Arts and Sciences Writing in the Disciplines Fellowship**, Fellowship for participation in the Writing in the Disciplines Faculty Seminar to enlarge the role of writing in undergraduate education.
- 2013 **Andrew Mellon Predoctoral Fellowship**, For students of exceptional promise and ability.

Teaching Experience

I have taught the following courses as a Lecturer at the University of Pittsburgh:

- CS 1501 **Algorithm Implementation**, *Fall 2014, Spring 2015, Fall 2015, Spring 2016, Fall 2016, Spring 2017, Fall 2017, Spring 2018, Fall 2018.*
- CS 1666 **Principles of Computer Game Design and Implementation**, *Fall 2018.*
- CS 1555 **Database Management Systems**, *Fall 2015, Spring 2016, Summer 2016, Summer 2017, Summer 2018.*
- CS 1520 **Programming Languages for Web Applications**, *Summer 2016, Summer 2017, Summer 2018.*
- CS 1550 **Introduction to Operating Systems**, *Spring 2015, Spring 2018.*
- CS 0441 **Discrete Structures for Computer Science**, *Spring 2015.*

I have taught the following courses as a TA/TF at the University of Pittsburgh:

- CS 1520 **Programming Languages for Web Applications**, *Spring 2014.*

I led weekly recitations/labs and graded the following courses as a TA at the University of Pittsburgh:

- CS 1653 **Applied Cryptography and Network Security**, *Spring 2010.*
- CS 1567 **Programming and System Design on a Mobile Robot Platform**, *Spring 2010.*
- CS 0007 **Introduction to Programming in Python**, *Fall 2009.*
- CS 1502 **Formal Methods in Computer Science**, *Spring 2009.*
- CS 1666 **Principles of Computer Game Design and Implementation**, *Fall 2008.*
- CS 1501 **Algorithm Implementation**, *Spring 2008.*

Additional teaching experience:

Undergraduate teaching assistant, *Fall 2006*, University of Pittsburgh, Department of Computer Science.

Computer science help desk tutor, *2006-2007*, University of Pittsburgh, Department of Computer Science.

Publications

Refereed Conference Publications

- C4 **Nicholas L. Farnan**, Adam J. Lee, Panos K. Chrysanthis, and Ting Yu "PAQO: Preference-Aware Query Optimization for Decentralized Database Systems" in Proceedings of the 30th IEEE International Conference on Data Engineering (ICDE 2014), March 2014.
- C3 **Nicholas L. Farnan**, Adam J. Lee, Panos K. Chrysanthis, and Ting Yu "Don't Reveal My Intension: Protecting User Privacy Using Declarative Preferences during Distributed Query Processing" in Proceedings of the 16th European Symposium on Research in Computer Security (ESORICS 2011), September 2011.

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- C2 José Brustoloni, **Nicholas L. Farnan**, Ricardo Villamarín-Salomón, and David Kyle. "Efficient Detection of Bots in Subscribers' Computers" in the Proceedings of the IEEE International Conference on Communications (ICC 2009), June 2009.
- C1 Peter Djalaliev, Muhammad Jamshed, **Nicholas L. Farnan**, and José Brustoloni. "Sentinel: Hardware-Accelerated Mitigation of Bot-Based DDoS Attacks" in the Proceedings of the 17th IEEE International Conference on Computer Communications and Networks (ICCCN 2008), August 2008.

Refereed Workshop Publications

- W1 **Nicholas L. Farnan**, Adam J. Lee, and Ting Yu "Investigating Privacy-Aware Distributed Query Evaluation" in Proceedings of the Ninth ACM Workshop on Privacy in the Electronic Society (WPES 2010), October 2010.

Refereed Demonstrations

- D3 Nathan R. Ong, Stephen E. Rojcewicz, **Nicholas L. Farnan**, Adam J. Lee, Panos K. Chrysanthis, and Ting Yu "Interactive Preference-Aware Query Optimization" to appear in the Proceedings of the 31st International Conference on Data Engineering (ICDE 2015), April 2015.
- D2 **Nicholas L. Farnan**, Adam J. Lee, Panos K. Chrysanthis, and Ting Yu "PAQO: A Preference-Aware Query Optimizer for PostgreSQL" in the Proceedings of the 39th International Conference on Very Large Databases (VLDB 2013), August 2013.
- D1 **Nicholas L. Farnan**, Adam J. Lee, Panos K. Chrysanthis, and Ting Yu "Enabling Intensional Access Control via Preference-aware Query Optimization" in the Proceedings of the 18th ACM Symposium on Access Control Models and Technologies (SACMAT 2013), June 2013.

Other Publications

- NR1 **Nicholas L. Farnan**, Adam J. Lee, Panos K. Chrysanthis, and Ting Yu "Don't Reveal My Intension: Protecting User Privacy Using Declarative Preferences during Distributed Query Processing" in University of Pittsburgh Department of Computer Science Technical Report No. TR-11-179, October 2011.

Department Service

Graduate Evaluation, Assignment, and Training Committee, 2015-present.

Undergraduate Recruiting and Advising Committee, 2014-present.

Undergraduate Assessment Committee, 2014-present.

Outreach Committee, 2014-present.

Professional Service

Journal Reviewer

**Transactions on Knowledge and Data Engineering (IEEE),
TKDE 2018.**

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Distributed and Parallel Databases (Springer),
DAPD 2016.

[External Conference Reviewer](#)

ACM Conference on Data and Application Security and Privacy,
CODASPY 2013, 2014, 2016.

IEEE International Conference on Data Engineering,
ICDE 2013, 2014.

Privacy Enhancing Technologies Symposium,
PETS 2013, 2014.

ACM Symposium on Access Control Models and Technologies,
SACMAT 2012, 2013, 2014.

ACM Workshop on Privacy in the Electronic Society,
WPES 2011, 2013.

International Conference on Security and Cryptography,
SECrypt 2012, 2013.

International Conference on Network and System Security,
NSS 2013.

European Symposium on Research in Computer Security,
ESORICS 2011, 2012, 2013.

ACM International Conference on Information and Knowledge Management,
CIKM 2013.

Annual Computer Security Applications Conference,
ACSAC 2013.

IEEE International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery,
CyberC 2013.

Security & Trust Management,
STM 2013.

IFIP WG 11.3 Working Conference on Data and Applications Security and Privacy,
DBSec 2012.

ACM SIGMOD International Conference on Management of Data,
SIGMOD 2011, 2012.

ACM Symposium on Information, Computer, and Communications Security,
ASIACCS 2011.

IEEE Workshop on Hot Topics in System Dependability,
HotDep 2011.