

# *Brian Tyrrell Nixon*

Curriculum Vitae  
Last Updated: January 2<sup>nd</sup>, 2024

Department of Computer Science  
University of Pittsburgh  
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## Education

### **University of Pittsburgh**

August 2020 - Present

**Ph. D.** in Computer Science

**Advisor:** Dr. Panos K. Chrysanthis

**Dissertation:**

### **University of Pittsburgh**

August 2016 - April 2020

**Bachelor's Degree** in Computer Science and Minor in Mathematics

**Cumulative GPA:** 3.64 / 4.0

## Teaching Experience

### **Teaching Assistant, University of Pittsburgh**

- CS 2550: Principles of Database Systems (Spring 2024)
- CS 1555: Database Management Systems (Fall 2020, Fall 2022, Spring 2023, Fall 2023, Spring 2024)
- CS 1501: Algorithms and Data Structures 2 (Spring 2021, Fall 2021, Summer 2022, Spring 2023)
- CS 1520: Programming Languages for Web Applications (Spring 2022)
- CS 1653: Applied Cryptography and Network Security (Fall 2021)
- CS 0445: Algorithms and Data Structures 1 (Summer 2021)
- CS 1657: Privacy in the Electronic Society (Spring 2021)

## Undergraduate Teaching Assistant University of Pittsburgh

- CS 1555: Database Management Systems (Spring 2020)
- CS 0445: Data Structures (Fall 2018, Fall 2019)
- CS 0441: Discrete Structures for Computer Science (Spring 2019, Spring 2020)

## Publications

### Conference and Workshop Papers

- [C1.] “RETSINA: Reproducibility and Experimentation Testbed for Signal-Strength Indoor Near Analysis”,  
Anna Baskin, **Brian T. Nixon**, Panos K. Chrysanthis, Christos Laoudias, Constantinos Costa, *Proceedings of the 13th IEEE International Conference on Indoor Positioning and Indoor Navigation, IPIN’23*, 2023.
- [C2.] “Remembering the Forgotten: Clustering, Outlier Detection, and Accuracy Tuning in a Postdiction Pipeline”,  
Anna Baskin, Scott Heyman, **Brian T. Nixon**, Constantinos Costa, Panos K. Chrysanthis, *27th European Conference on Advances in Databases and Information Systems, ADBIS’23*, 2023.
- [C3.] “A Context, Location, and Preference-Aware System for Safe Pedestrian Mobility”,  
Constantinos Costa, **Brian T. Nixon**, Sayantani Bhattacharjee, Benjamin Graybill, Demetrios Zeinalipour-Yazti, Walter Schneider, Panos K. Chrysanthis, *Proceedings of the 22nd IEEE International Conference on Mobile Data Management, MDM’21*, 2021.

### Demo Papers

- [D1.] “CAPRIO with Inclusive Pedestrian Path Recommendations”  
**Brian T. Nixon**, Zhiyong Chen, Sai Konduru, Yuxin Liu, Constantinos Costa, Panos K. Chrysanthis, *Proceedings of the 24th IEEE International Conference on Mobile Data Management, MDM’23*, 2023.
- [D2.] “Efficient Detection of COVID-19 Exposure”,  
**Brian T. Nixon**, Rakan Alseghayer, Constantinos Costa, Benjamin Graybill, Xiaozhong Zhang, Panos K. Chrysanthis, *Proceedings of the 23rd IEEE International Conference on Mobile Data Management, MDM’22*, 2022.

**[D3.] “HealthDist: A Context, Location and Preference-Aware System for Safe Navigation”,**

**Brian T. Nixon**, Sayantani Bhattacharjee, Benjamin Graybill, Constantinos Costa, Sudhir Pathak, Walter Schneider, Panos K. Chrysanthis, *Proceedings of the 22nd IEEE International Conference on Mobile Data Management, MDM’21*, 2021.

## **Awards & Honors**

- Orrin E. & Margaret M. Taulbee Award for Excellence in Computer Science (April 2022, December 2023)
  - Recognizes teaching excellence and academic progress towards a Ph.D.
  - Demonstrated strong research interests through scholarly publications
- IEEE MDM’21: Best Industry and Application Paper Award at MDM’21, “A Context, Location and Preference-Aware System for Safe Pedestrian Mobility”, 22nd IEEE International Conference on Mobile Data Management (MDM’21), Toronto, Canada, June 15 - June 18, 2021.
- IEEE MDM’21: Best Demo Paper Award at MDM’21, “HealthDist: A Context, Location, and Preference-Aware System for Safe Navigation”, 22nd IEEE International Conference on Mobile Data Management (MDM’21), Toronto, Canada, June 15 - June 18, 2021.
- SCI Summer Scholar Research Program (August 2019)

## **Professional Experience**

### **Teaching Assistant (TA)**

University of Pittsburgh, Department of Computer Science  
(May 2020 - Present)

### **External Reviewer**

27th European Symposium on Research in Computer Security, ESORICS2022  
(June 2022)

**Diversity and Inclusion Committee Member** 16th ACM International Conference on Distributed and Event-Based Systems, DEBS2022 (June 2022)

### **External Reviewer**

Proceedings of the 48<sup>th</sup> International Conference on Very Large Data Bases,

VLDB2022  
(March 2022)

**External Reviewer**

37<sup>th</sup> IEEE International Conference on Data Engineering, ICDE2021  
(July 2020)

**Undergraduate Teaching Assistant (UTA)**

University of Pittsburgh, Department of Computer Science  
(August 2018 - May 2020)