

Edwin G. Dauber Jr.

PERSONAL DETAILS

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Chester, PA 19013
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ACADEMIC QUALIFICATIONS

Ph.D. Computer Science 2013-June 2020

Drexel University, Philadelphia, Pennsylvania, USA

Thesis Title: Stylometric Authorship Attribution Techniques and Analysis for Collaborative Platforms

B.Sc. Computer Science 2009-2013

Widener University, Chester, Pennsylvania, USA

Minor in Mathematics

TEACHING EXPERIENCE

Assistant Professor Aug 2021 (Current)

Widener University

Courses: Introduction to Computer Science 1 (CSCI 151), Network & Computer Security (CSCI 392)

Assistant Teaching Professor

Sep 2020 - Aug 2021

Drexel University

Courses: Introduction to Software Engineering and Development (SE 181), Software Verification and Validation (SE 320), Programming Foundations (CS 570); Introduction to Software Design (CS 504), Privacy (CS590), Privacy and Trust (CS 465)

Teaching Assistant

Sep 2019 - June 2020

Drexel University

Courses: Computer Programming I (CS 171), Computer Networks (CS 544), Software Design (SE 575)

REThink Graduate Assistant

June 2019 - Aug 2019

Drexel University

Guided high-school, community college, and middle-school teachers in conducting academic research and developing lesson plans appropriate for their students related to those experiences

Website: <https://sites.google.com/view/rethinkcsdrexel/home>

NSF Website: https://www.nsf.gov/funding/pgm_summ.jsp?pims_id=505170

Teaching Assistant

Jan 2019 - Mar 2019

Drexel University

Course: Machine Learning (CS 613)

Guest Lecturer

October 1 2018 and November 26 2018

Drexel University

Course: Artificial Intelligence (CS 510)

Computer Science Lab Manager

Aug 2011 - May 2013

Widener University

Maintained Linux network, answered questions for undergraduate students, and assisted Professors with lab sections

Tutor

May 2011 - May 2013

Widener University

Courses: Programming in C (CSCI 143), Introduction to Personal Computers (CSCI 101), various other CS courses as necessary

FIRST AUTHORED PUBLICATIONS

Conferences

- Edwin Dauber, Robert Erbacher, Gregory Shearer, Michael Weisman, Frederica Nelson, and Rachel Greenstadt. Supervised authorship segmentation of open source code projects. *Proceedings on Privacy Enhancing Technologies*, 2021(4):464–479, 2021
- Edwin Dauber, Aylin Caliskan, Richard Harang, Gregory Shearer, Michael Weisman, Frederica Nelson, and Rachel Greenstadt. Git blame who?: Stylistic authorship attribution of small, incomplete source code fragments. *Proceedings on Privacy Enhancing Technologies*, 2019(3):389–408, 2019
- Edwin Dauber, Rebekah Overdorf, and Rachel Greenstadt. Stylometric authorship attribution of collaborative documents. In *International Conference on Cyber Security Cryptography and Machine Learning*, pages 115–135. Springer, 2017

OTHER PUBLICATIONS

Conferences

- Michael Weisman, P Ritchey, G Shearer, E Colbert, E Dauber, L Knachel, D Sullivan, T Parker, and Rachel Greenstadt. Machine learning and data mining for ipv6 network defence. In *International Conference on Cyber Warfare and Security*, pages 681–XVI. Academic Conferences International Limited, 2018. Presented as a poster by Edwin Dauber
- Aylin Caliskan, Fabian Yamaguchi, Edwin Dauber, Richard Harang, Konrad Rieck, Rachel Greenstadt, and Arvind Narayanan. When coding style survives compilation: De-anonymizing programmers from executable binaries. NDSS-Symposium, 2018. Presented by Aylin Caliskan
- Bander Alsulami, Edwin Dauber, Richard Harang, Spiros Mancoridis, and Rachel Greenstadt. Source code authorship attribution using long short-term memory based networks. In *European Symposium on Research in Computer Security*, pages 65–82. Springer, 2017. Presented by Bander Alsulami

Workshops

- Brad Miller, Alex Kantchelian, Sadia Afroz, Rekha Bachwani, Edwin Dauber, Ling Huang, Michael Carl Tschantz, Anthony D Joseph, and J Doug Tygar. Adversarial active learning. In *Proceedings of the 2014 Workshop on Artificial Intelligent and Security Workshop*, pages 3–14. ACM, 2014. Presented by Brad Miller

ADDITIONAL PRESENTATIONS

- Edwin Dauber. Multi-author stylometry. Drexel ReThink 2019, 2019
- Edwin Dauber, Rachel Greenstadt, Michael Weisman, Gregory Shearer, and Frederica Nelson. Stylometric authorship segmentation of collaborative source code. Army Research Lab 2017, 2017
- Edwin Dauber, Cesar Osorio, Jeffrey Rufinus, and Yana Kortsarts. Full-scale computer game development and undergraduate computer science education. National Conference on Undergraduate Research 2013, 2013
- Edwin Dauber, Cesar Osorio, Jeffrey Rufinus, and Yana Kortsarts. Integrating classical mechanics with computer science in game programming. Widener University Honors Week 2013, Widener University Student Project Day 2013, 2013

- Edwin Dauber and Yana Kortsarts. Implementing a steganography algorithm in the java environment. Widener University Honors Week 2012, National Conference on Undergraduate Research 2012, Widener University Student Project Day 2012, 2012

FIRST AUTHORED POSTERS

- Edwin Dauber, Aylin Caliskan, Richard Harang, and Rachel Greenstadt. Poster: Git blame who?: Stylistic authorship attribution of small, incomplete source code fragments. In *40th ACM/IEEE International Conference on Software Engineering, ICSE 2018*, pages 356–357. IEEE Computer Society, 2018
- Edwin Dauber, Brad Miller, and Rachel Greenstadt. Preparing a comparative baseline for malware classification research. Intel SCRUB retreat, 2014
- Edwin Dauber and Yana Kortsarts. Implementing a steganography algorithm in the java environment. Widener University Summer Research Symposium 2011, Consortium for Computing Science in College Eastern Conference 2011, Consortium for Computing Science in College North Eastern Conference 2012, 2011-2012

OTHER POSTERS

- Frederica Nelson. Stylometry - authorship attribution for source code and binaries. Army Research Lab Adelphi TAB review co-presented by Frederica Nelson, Edwin Dauber and Aviel Stein, 2018
- Dennis Röllke, Aviel J Stein, Edwin Dauber, Mosfiquur Rahman, Michael J Weisman, Gregory G Shearer, Frederica Nelson, Aylin Caliskan, Richard Harang, and Rachel Greenstadt. Poster: Stylometry of author-specific and country-specific style features in javascript. *NDSS-Symposium*, 2018. Presented by Aviel Stein with assistance from Edwin Dauber
- Richard Harang, Edwin Dauber, Aylin Caliskan, and Rachel Greenstadt. Stylometry authorship attribution for source code and binaries. Army Research Lab Adelphi TAB review presented by Edwin Dauber, 2016

SERVICE EXPERIENCE

Security Concentration Committee, Drexel University

Sep 2020 - Aug 2021

Includes working to revise the requirements for the security concentration and graduate certificate

Program Committee Member (unlisted), IIT'20

Security and Privacy Track

Website: <https://conferences.uaeu.ac.ae/iit20/en/technicalcomm.shtml>

Program Committee Member, AICCSA 2019

Track 3: Security, Privacy, and Trust

Website: <http://www.aiccsa.net/AICCSA2019/13-tracks/30-track-3>