

Eric Newberry

Engineering VI 396
404 Westwood Plaza
Los Angeles, CA 90095
USA

✉ enewberry@cs.ucla.edu
🌐 <https://ericnewberry.com>

Education

- Jan 2020 – **Ph.D. in Computer Science**, *University of California, Los Angeles (UCLA)*.
Present Advisor: Lixia Zhang
- May 2020 **M.S. in Computer Science and Engineering**, *University of Michigan*, GPA: 3.7.
(Expected)
- May 2018 **B.S. (Honors) in Computer Science**, *University of Arizona*, GPA: 3.86.
Honors: Magna Cum Laude, Completion of University Honors Program
Thesis: “A Caching Evaluation of the Hadoop Distributed File System”
Advisor: Beichuan Zhang

Research Interests

- Edge computing
- Distributed file systems
- Network measurement
- Information-centric networking

Honors and Awards

- 2018 **Franklin D. and Clarence T. Johnston Graduate Fellowship**, *Univ. of Michigan*.
- 2018 **Member**, *Phi Beta Kappa*.
- 2018 **Excellence in Undergraduate Research Award**, *College of Science, Univ. of Arizona*.
- 2016 **Galileo Circle Scholar**, *University of Arizona*.
- 2015 **Member**, *IEEE-Eta Kappa Nu (IEEE-HKN)*.
Inducted April 27, 2015, Iota Xi chapter

Research Experience

UCLA

- 01/2020– **Graduate Student Researcher**, *Internet Research Laboratory*.
Present Advisor: Lixia Zhang

University of Michigan

- 04/2019– **Graduate Student Research Assistant**, *RobustNet Research Group*.
12/2019 Advisor: Z. Morley Mao
- 09/2018– **Graduate Student Research Assistant**, *Real-Time Computing Laboratory*.
04/2019 Advisor: Kang G. Shin
- 07/2018– **Research Assistant**, *Real-Time Computing Laboratory*.
08/2018 Advisor: Kang G. Shin

University of Arizona

- 05/2018– **Research Specialist**, *Network Research Laboratory*.
08/2018 Advisor: Beichuan Zhang
- 03/2015– **Undergraduate Research Assistant**, *Network Research Laboratory*.
05/2018 Advisor: Beichuan Zhang
- 12/2014– **Undergraduate Research Assistant**, *Autonomic Computing Laboratory*.
04/2015 Advisor: Salim Hariri

National Institute of Standards and Technology (NIST)

- 07/2017– **Student Trainee (Computer Science)**, *Emerging Network Technologies Group*.
08/2017 Advisor: Lotfi Benmohamed

Teaching Experience

University of Arizona

- 08/2016– **Section Leader**, *CSC 110: "Introduction to Computer Science I"*.
12/2016 Professor: Allison Obourn
- 01/2016– **Undergraduate Teaching Assistant**, *CSC 352: "Systems Programming and Unix"*.
05/2016 Professors: Eric Anson and Saumya Debray

Service

- 04/2019– **Advisor**, *IEEE-HKN Beta Epsilon Chapter*.
Present
- 04/2019– **Vice President**, *University of Michigan Computer Science Graduate Student Organization (CSEG)*.
12/2019
- 04/2019– **Graduate Senator**, *University of Michigan Engineering Student Government*.
12/2019
- 09/2018– **Scholarship Chair**, *IEEE-HKN Beta Epsilon Chapter*.
04/2019

Publications

Refereed Papers

- [1] Mert Pesé, Troy Stacer, C. Andrés Campos, Eric Newberry, Dongyao Chen, Kang G. Shin. “LibreCAN: Automated CAN Message Translator.” *ACM CCS 2019*, November 2019.
- [2] Eric Newberry, Beichuan Zhang. “On the Power of In-Network Caching in the Hadoop Distributed File System.” *ACM ICN 2019*, September 2019.
- [3] Zhiyi Zhang, Yingdi Yu, Haitao Zhang, Eric Newberry, Spyridon Mastorakis, Yanbiao Li, Alexander Afanasyev, Lixia Zhang. “An Overview of Security Support in Named Data Networking.” *IEEE Communications Magazine*, November 2018.
- [4] Junxiao Shi, Eric Newberry, Beichuan Zhang. “On Broadcast-based Self-Learning in Named Data Networking.” *IFIP Networking 2017*, June 2017.

Posters

- [5] Davide Pesavento, Omar Ilias El Mimouni, Eric Newberry, Lotfi Benmohamed, Abdella Battou. “A Network Measurement Framework for Named Data Networks.” *ACM ICN 2017*, September 2017.

Technical Reports

- [6] Alexander Afanasyev, Junxiao Shi, Beichuan Zhang, Lixia Zhang, Ilya Moiseenko, Yingdi Yu, Wentao Shang, Yanbiao Li, Spyridon Mastorakis, Yi Huang, Jerald Paul Abraham, Eric Newberry, Teng Liang, Klaus Schneider, Steve DiBenedetto, Chengyu Fan, Susmit Shannigrahi, Christos Papadopoulos, Davide Pesavento, Giulio Grassi, Giovanni Pau, Hang Zhang, Tian Song, Haowei Yuan, Hila Ben Abraham, Patrick Crowley, Syed Obaid Amin, Vince Lehman, Muktadir Chowdhury, Ashlesh Gawande, Lan Wang, Nicholas Gordon. “NFD Developer’s Guide.” Technical Report NDN-0021, Named Data Networking.

Other

- [7] Eric Newberry. *A Caching Evaluation of the Hadoop Distributed File System*. Bachelor’s thesis, University of Arizona, May 2018.

Professional Affiliations

- **Association for Computing Machinery (ACM)**, Student Member
- **ACM SIGCOMM**, Student Member
- **ACM SIGMOBILE**, Student Member
- **ACM Emerging Interest Group on Smart Connected Communities**, Student Member