

# Nasir U. Eisty

## Assistant Professor

Computer Science & Software Engineering Dept.  
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## Research Interests

- Software Engineering
- Software Quality
- Empirical Software Engineering
- Research Software Engineering
- Machine Learning

## Experience

- **Assistant Professor - Tenure Track** (September 2020 to Present)  
Dept. of Computer Science & Software Engineering  
California Polytechnic State University, San Luis Obispo, CA, USA
- **Postdoctoral Researcher** (June 2020 to August 2020)  
Software Engineering lab, Dept. of Computer Science  
University of Alabama, Tuscaloosa, AL, USA
- **Research Assistant** (August 2016 to May 2020)  
Software Engineering lab, Dept. of Computer Science  
University of Alabama, Tuscaloosa, AL, USA
- **Research Intern** (Summer 2019)  
Los Alamos National Laboratory (LANL)  
Los Alamos, NM, USA
- **Research Intern** (Summer 2017)  
National Center for Supercomputing Applications (NCSA)  
University of Illinois at Urbana-Champaign, IL, USA
- **Lecturer** (January 2015 to July 2016)  
Department of Computer Science & Engineering.  
Daffodil International University, Dhaka, Bangladesh

## Education

- **Ph.D. in Computer Science (May 2020)**  
Department of Computer Science  
The University of Alabama, Tuscaloosa, AL, USA

- **MS in Computer Science (August 2018)**  
Department of Computer Science  
The University of Alabama, Tuscaloosa, AL, USA
- **B.Sc. in Computer Science & Engineering (December 2014)**  
Department of Computer Science & Engineering  
Rajshahi University of Engineering & Technology  
Rajshahi, Bangladesh

## Awards

- **BSSw (Better Scientific Software) Fellowship 2020**  
  - ☐ Awarded grant \$25,000 for the calendar year 2020 ([Link](#))
- **1st Prize in Graduate Poster Competition at the University of Alabama - 2019**
- **BSSw (Better Scientific Software) Fellowship Honorable Mention - 2019**
- **Travel Scholarship to Einstein Toolkit Meeting 2017**

## Publications

1. Nasir U. Eisty, George K. Thiruvathukal, Jeffrey C. Carver “**A Survey of Software Metric Use in Research Software Development**” *14th eScience IEEE International Conference at Amsterdam, Netherlands, Oct 29 - Nov 1, 2018.*
2. Nasir U. Eisty, George K. Thiruvathukal, Jeffrey C. Carver “**Use of Software Process in Research Software development: A Survey**” *In Evaluation and Assessment in Software Engineering (EASE'19) Conference at Copenhagen, Denmark, April 15 - 17, 2019.*
3. Nasir U. Eisty, Danny Perez, Jeffrey C. Carver, J. David Moulton, Hai Ah Nam “**Testing Research Software: A Case Study**” *International Workshop on Software Engineering for Computational Science at Amsterdam, Netherlands, June 3-5, 2020.*
4. Nasir U. Eisty, Jeffrey C. Carver “**Peer Code Review in Research Software development**” *(Revision submitted to the Empirical Software Engineering Journal)*
5. Nasir U. Eisty, Jeffrey C. Carver “**A Survey about Testing of Research Software**” *(Revision submitted to the IEEE Transactions on Software Engineering Journal)*

## Short Courses Taught

- **Webinar: Testing and Code Review Practices in Research Software Development** ([Link](#))  
The IDEAS Productivity Webinar Series of DOE Exascale Computing Project  
September 9, 2020
- **Tutorial: Contemporary Peer Code Review Practices**  
2019 Exascale Computing Project Annual Meeting  
January 17, 2019, at Houston, Texas
- **Tutorial: Contemporary Peer Code Review in Scientific Software Development** ([Link](#))  
14th eScience IEEE International Conference  
October 29, 2018, at Amsterdam, Netherlands

- **Summer Camp: Student Introduction to Engineering (Computer Science)**  
SITE III Summer Camp  
July 22 - 27, 2018 at The University of Alabama
- **Summer Camp: Student Introduction to Engineering (Computer Science)**  
SITE II Summer Camp  
July 15 - 20, 2018 at The University of Alabama
- **Summer Camp: Student Introduction to Engineering (Computer Science)**  
SITE I Summer Camp  
July 8 - 13, 2018 at The University of Alabama
- **Tutorial: Contemporary Peer Code Review, A Lightweight, Asynchronous Method for Ensuring High-Quality Code**  
SEA Software Engineering Conference and Tutorial  
April 4, 2018 at UCAR - Boulder, CO, USA

## Workshops Organized

- **Software Engineering and Reuse in Modeling, Simulation and Data Analytics for Science and Engineering ([Link](#))**  
The International Conference for High Performance Computing, Networking, Storage, and Analysis (SC20)  
November 19, 2020 (Virtual)
- **2019 International Workshop on Software Engineering for Science ([Link](#))**  
International Conference on Software Engineering (ICSE)  
May 28, 2019 at Montreal, Canada
- **Understanding Challenges and Solutions for the Development of Modeling & Simulation Software in Defense and Medicine**  
AlaSim International Conference  
October 25, 2017 at Huntsville, AL, USA

## Professional Services

- **Program Committee Member ([Link](#))**  
2021 International Workshop on Software Engineering for Computational Science  
June 16-18, 2021 at Krakow, Poland
- **Software Engineering Lecturer Search Committee Member**  
Fall 2020 in CSSE Department at Cal Poly
- **Scholarship Award Committee Member**  
Fall 2020 - Present in CSSE Department at Cal Poly
- **Software Engineering Curriculum Committee Member**  
Fall 2020 - Present in CSSE Department at Cal Poly
- **Research Software Engineer (RSE) Search Committee Member**  
University of Alabama Research Software Initiative

## Blogs

- **Testing Non-Deterministic Research Software ([Link](#))**  
Published on Better Scientific Software Blog by DOE on October 13, 2020

- **Making Software a First-Class Citizen in Research ([Link](#))**  
Software Sustainability Institute Blog on November 28, 2018

## Notable Participations

- **University of Alabama System Scholars Institute 2019**  
May 14, 2019 at University of Alabama in Huntsville, AL, USA
- **Judge at Alabama Robotics Competition**  
April 6, 2019 at University of Alabama, Tuscaloosa, AL, USA
- **Judge at Undergraduate Research and Creative Activity Conference 2019**  
March 27, 2019 at University of Alabama, Tuscaloosa, AL, USA
- **ALEPSCOR NSF Day**  
May 1, 2018 at University of Alabama at Birmingham, AL, USA
- **Judge at Alabama Robotics Competition**  
April 7, 2018, at The University of Alabama
- **Judge at 2018 Undergraduate Research and Creative Activity Conference**  
March 28-30, 2018, at The University of Alabama
- **2018 Alabama Computer Science Education Summit**  
March 14, 2018, Montgomery, AL, USA
- **2017 International Workshop on Software Engineering for High Performance Computing in Computational and Data-Enabled Science and Engineering**  
SC17 International Conference, November 12, 2017, Denver, CO, USA
- **2017 North American Einstein Toolkit School and Workshop**  
Jul 31 - Aug 4 at National Center for Supercomputing Applications, Urbana, IL, USA
- **Scaling to Petascale Institute - BLUE WATERS Sustained Petascale Computing**  
June 26 - 30, 2017 at Beckman Institute for Advanced Science and Technology, Urbana, IL
- **Volunteer at Alabama Robotics Competition**  
April 8, 2017 at University of Alabama, Tuscaloosa, AL, USA

## Other Achievements

- **Excellent Performance Award** from Dept. of CSE, RUET in 2013
- **Excellent Performance Award** from Dept. of CSE, RUET in 2014
- **Champion** prize at inter university software/project contest at BUET CSE-FEST 2013
- **Champion** prize in software category at digital innovation fair 2013.
- **7th position** at EATL-Prothomalo Apps contest 2014
- **7th position** in IT Business Idea challenge at IUT CSE Carnival 2014
- **5th Position** at Inter-University Programming Contest at RUET CSE-FEST in 2012
- **Runner up** at programming contest at RUET in 2011
- **Jury Board member** at “National Mobile apps contest” in Bangladesh for the year 2015