



WSU's Commitment to Cybersecurity

Partha Pande

Director, School of EECS

NEW CYBERSECURITY UNDERGRADUATE PROGRAM

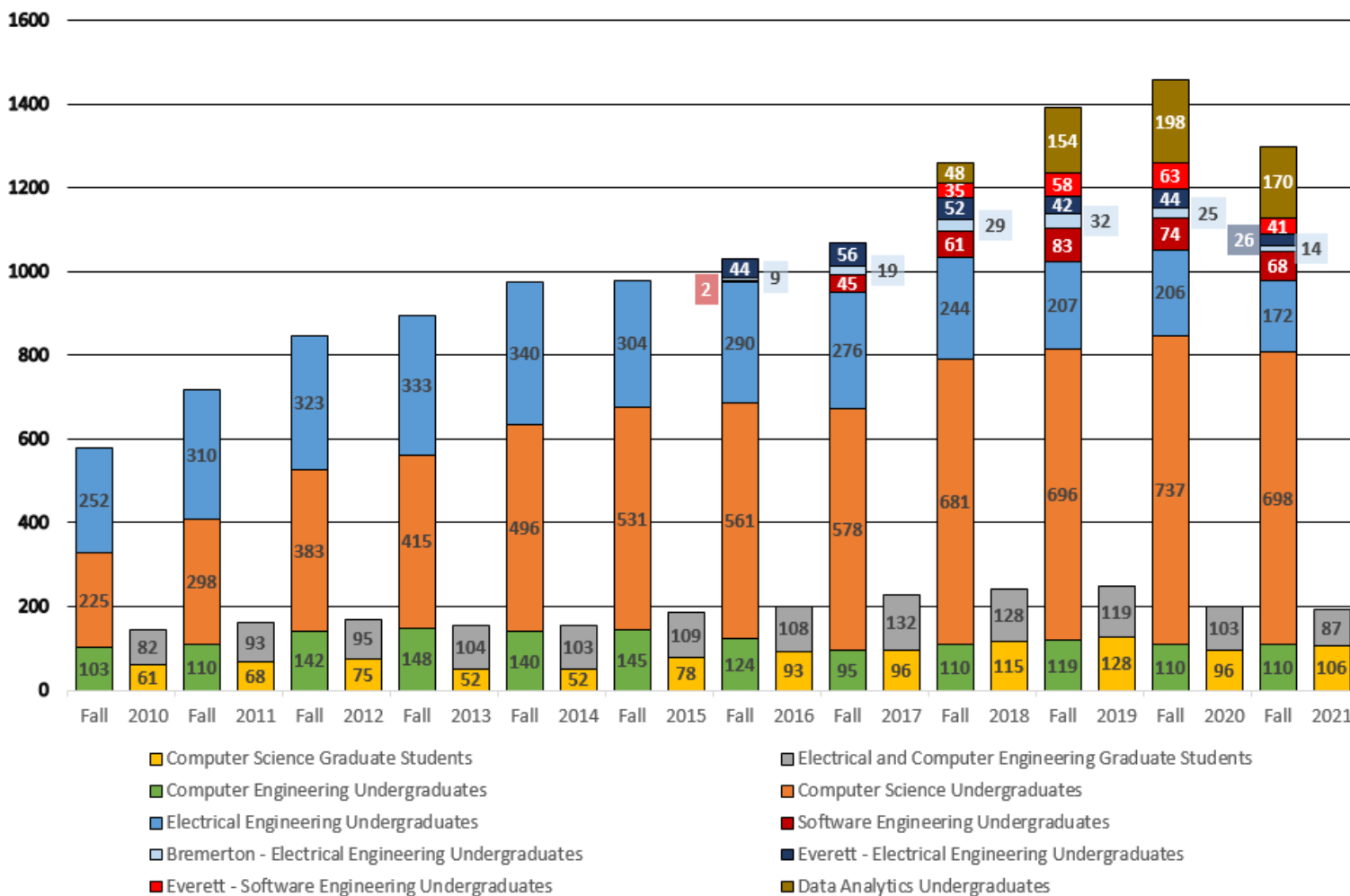
- ❑ State has approved funding
- ❑ New faculty lines
- ❑ On-going faculty recruitment
- ❑ Curriculum development
- ❑ Involvement of faculty from Pullman, TC and Everett
- ❑ Brainstorming with industry leaders



ACCOMPLISHMENTS (SINCE AUG 2021)

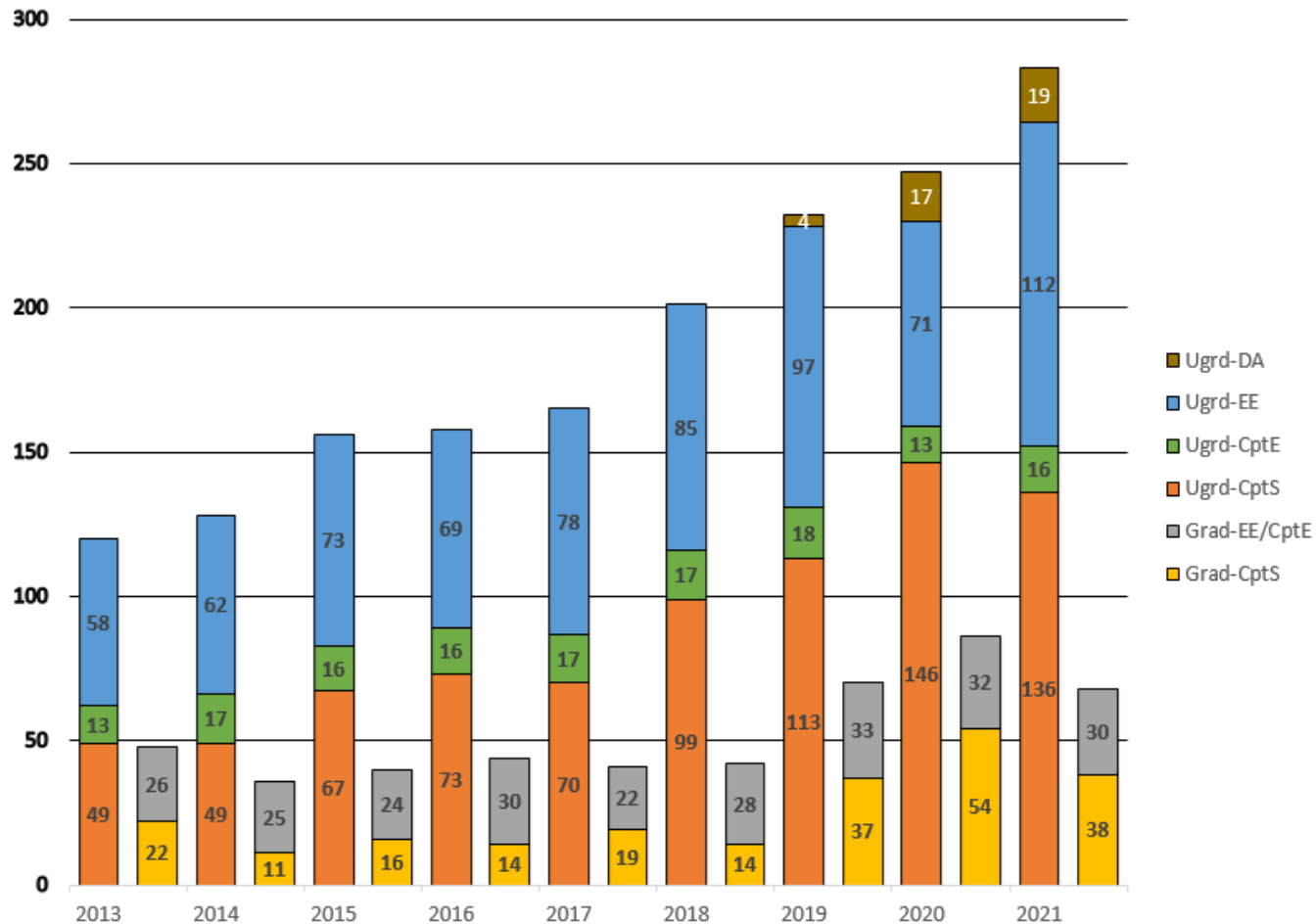
- ❑ **Three new cybersecurity courses** approved by faculty senate
 - CptS 327: Introduction to cybersecurity
 - CptS 427: Applied cybersecurity
 - CptS 428/528: Advanced cybersecurity
- ❑ **A bi-weekly virtual seminar series** featuring cybersecurity experts from industry and academia
 - Spring 2022: 7 seminars
 - Fall 2021: 5 seminars
- ❑ **Website** (<https://www.cyser.wsu.edu>) providing information to current and prospective students
- ❑ **A two-weeks summer workshop** happening now (May 23– June 3)

STUDENT POPULATION: STATISTICS



GRADUATION: STATISTICS

Degrees Granted by Fiscal Year



ACCREDITATION (ABET)

- ❑ All programs in EECS accredited by ABET, but by two different commissions:
 - Engineering Accreditation Commission (EAC): EE, CptE, SE
 - Computing Accreditation Commission (CAC): BA & BS CptS
- ❑ ABET generally grants six-year accreditation periods
- ❑ EECS's most recent site visit occurred Sep./Oct. 2019
- ❑ EECS received full accreditation till 2026
- ❑ The Cybersecurity undergraduate program will be ABET accredited too



PNNL/WSU Advanced Grid Institute (AGI) – ESIC REP Update



Jeff Dagle, Co-Director
PNNL



Noel Schulz, Co-Director
WSU

April 12, 2022



NOTABLE AWARDS & RECOGNITIONS

- ❑ IBM PhD Research Scholarship (Syrine Belakaria, Jana is the adviser)
- ❑ 2021 George Pólya Prize in Applied Combinatorics (Assefaw and his collaborators)
- ❑ ACM TODAES Best Paper Award (Ganapati, Jana and Partha)
- ❑ CIGRE Medal 2021 (Anjan Bose)
- ❑ New WSAS member (Noel Schulz)
- ❑ International Joint Conference on Artificial Intelligence (IJCAI), Early Career Spotlight (Jana)
- ❑ SIGDA PhD Dissertation Award 2022 (Ganapati Bhat)

COMPUTER SCIENCE RANKINGS CONTINUE TO RISE (2015-2020)

Computer Science and Engineering (CSE) graduate program ranking is governed by CSRankings: Computer Science Rankings (csrankings.org) currently is followed all over the world. CSE is a vast and rapidly evolving field. Hence, instead of having one overall ranking, the accepted norm is to follow topic-wise ranking. The school of EECS has been focusing on two broad topics currently: (i) Design Automation (DA) (ii) High-performance Computing (HPC). One can see that the ranking of the school has evolved for these two topics. The ranking of University of Washington are provided for reference within brackets.

In summary, the school of EECS is within top 10 in DA and within top 20 in HPC currently. Also, the improvement in ranking from 2005-2010-time frame to 2015-2020-time frame is significant. As a point of reference, WSU is higher ranked than University of Washington in both DA and HPC currently. Hence, we can say that the school has made significant stride to achieve excellence within a niche area of CSE and we should keep on focusing to either maintaining or improving our ranking on these two topics in near future. **Following shows the ranking of the top 20 schools considering Design Automation and HPC (2015-2020) together (As of 9th May 2020).**

1 Univ. of Illinois at Urbana-Champaign

2 University of California - Riverside

3 University of California - San Diego

4 Northeastern University

5T Washington State University

5T Georgia Institute of Technology

7 University of Maryland - College Park

8 Northwestern University

9 University of California - Berkeley

10 University of Pittsburgh

11Duke University and University of Michigan

13 University of California - Irvine and University of Central Florida

15 University of California - Los Angeles

16 Virginia Tech

17 Pennsylvania State University and University of Utah

19 University of Notre Dame

20 Carnegie Mellon University

Topic	2005-2010	2015-2020
Design Automation	36 (No Ranking)	7 (32)
High-performance Computing	52 (74)	17 (78)

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- 1 Univ. of Illinois at Urbana-Champaign
- 2 University of California - Riverside
- 3 Northeastern University
- 4 **Washington State University**
5. **University of California - San Diego**
6. University of California - Irvine
- 7 **Georgia Institute of Technology**
- 8 Northwestern University
- 9 Duke University and University of Maryland - College Park
- 11 University of Utah and NCSU
- 13 University of Michigan
- 14 University of California – Berkeley
- 15 Virginia Tech
- 16 UCLA, UCSB and University of Pittsburgh
- 19 Penn State, TAMU and UCF
- 22 University of Notre Dame

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6. University of California - Irvine
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- 8 Northwestern University
- 9 University of Utah
- 10 Duke University
- 11 University of Michigan
- 12 University of Central Florida
- 13 UCSB
- 14 University of California – Berkeley, University of Pittsburgh
- 16 NCSU
- 17 Penn State
- 18 TAMU
- 19 UCLA, University of Maryland, College Park, University of Notre Dam

Thank you



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