Office of the Associate Dean for Academic Affairs

Esfan Haghverdi Executive Associate Dean for Academic Affairs

School of Informatics, Computing, and Engineering Indiana University Bloomington

February 22, 2019

Esfan HaghverdiExecutive Associate Dean for<mark>Office of the Associate Dean for Academic Af</mark>

SICE History

- 2000, School of Informatics
- 2005, School of Informatics (CS joined the school)
- 2009, School of Informatics and Computing
- 2013, School of Informatics and Computing (SLIS joined the school)
- 2015, Intelligent Systems Engineering Department and Program were approved
- 2017, School of Informatics, Computing, and Engineering

• Academic Operations (Sally Deckard)

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- Academic Operations (Sally Deckard)
- Career Services (Kate Caldwell)

Image: Image:

- Academic Operations (Sally Deckard)
- Career Services (Kate Caldwell)
- Undergraduate Recruiting and Advising (Nancy Lemons)

• Academic Operations (Sally Deckard)

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- Academic Operations (Sally Deckard)
- Career Services (Jodie Sackley)

Image: A matrix and a matrix

- Academic Operations (Sally Deckard)
- Career Services (Jodie Sackley)
- Computing Education Outreach (Michele Roberts)

- Academic Operations (Sally Deckard)
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- Diversity and Inclusion (Lamara Warren)

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- Online Education (Kayla Scroggins)

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- Student Engagement and Success (Tiana Iruoje)

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- Undergraduate Advising (Nancy Lemons)
- Undergraduate Recruiting (Natalie Edwards)
- Cybersecurity Programs (Raquel Hill)
- Data Science Programs (Haixu Tang)
- Serve/Teach IT (Matt Hottell)

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• Strategic Initiatives (Collaboration with Travis Brown)

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- Strategic Initiatives (Collaboration with Travis Brown)
- Designated International Administrator (Collaboration with OVPIA)

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- Karen Kenny
- Michele Dompke

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• Department of Computer Science

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- Department of Computer Science
- Department of Informatics

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- Department of Computer Science
- Department of Informatics
- Department of Information and Library Science (graduate program)

- Department of Computer Science
- Department of Informatics
- Department of Information and Library Science (graduate program)
- Department of Intelligent Systems Engineering (Fall 2016)

- Department of Computer Science
- Department of Informatics
- Department of Information and Library Science (graduate program)
- Department of Intelligent Systems Engineering (Fall 2016)
- Data Science Program (graduate program)

Department of Computer Science

Undergraduate Degrees

- Bachelor of Science in Computer Science: 538 students (Specializations: AI, PL, Systems, Foundations, Security, Data Science, Software Engineering)
- Bachelor of Arts in Computer Science (Administered by the College of Arts and Science)
- Accelerated Master's Program in Computer Science
- Minor in Computer Science
- Minor in Information Technology

Department of Computer Science

• Graduate Degrees

- M.S. in Computer Science
- M.S. in Bioinformatics
- M.S. in Secure Computing
- Dual Degree in Secure Computing and the Russian and East European Studies
- M.S. in Cybersecurity Risk Management (jointly with Maurer and Kelley)
- Ph.D. in Computer Science
- Ph.D. in Cognitive Science and Computer Science (A dual major in cognitive science and computer science)
- Ph.D. Minor in Computer Science

Department of Informatics

Undergraduate Degrees

- Bachelor of Science in Informatics: 1577 students (2nd largest major on campus!) (Cognates in 30+ areas)
- BSc Informatics → MSIS (Kelley School of Business)
- BSc Informatics → MIS (ILS)
- Certificate in Informatics
- Minor in Human-Centered Computing
- Minor in Informatics
- Minor in Security Informatics

Department of Informatics

Graduate Degrees

• M.S. in Informatics

(Complex systems, proactive health informatics, human-computer interaction design, music informatics, intelligent and interactive systems, computing, culture and society, and virtual heritage)

- M.S. in Human-Computer Interaction Design
- Ph.D. in Informatics (Multiple tracks)
- Ph.D. Minors in Informatics

(Bioinformatics, complex networks and systems, data science, human-computer interaction, informatics, music informatics, security

informatics, and social informatics)

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Information and Library Science

- Minor in Intelligence Studies
- Master of Information Science (M.I.S.)
- Accelerated Master's Program in Information Science (B.S. or B.A. and a Master of Information Science)
- Master of Library Science (M.L.S.)
- Accelerated Master's Program in Library Science (B.S. or B.A. and a Master of Library Science)
- Ph.D. in Information Science
- Ph.D. minors: ILS, Information Science
- Graduate Certificate in Information Architecture

Department of Intelligent Systems Engineering

- Undergraduate Degrees
 - Bachelor of Science in Intelligent Systems Engineering: 89 students (Concentrations: Computer Engineering/Cyber-physical Systems, Bioengineering, Molecular Nanoscale Engineering)
 - Accelerated Master of Science in Intelligent Systems Engineering

Department of Intelligent Systems Engineering

- Graduate Degrees
 - Master of Science in Intelligent Systems Engineering
 - PhD in Intelligent Systems Engineering (Tracks : Bioengineering, Computer Engineering, Cyber-physical Systems, Environmental Engineering, Molecular and Nanoscale Engineering, Neuroengineering)

Data Science

- Data Science GR CRT
- Data Science MS
- Data Science MS Online

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Graduate Certificates

- Data Science GR CRT
- Cybersecurity GR CRT
- Information Architecture GR CRT

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Ranked List by Enrollment

- Data Science Online, 294
- Data Science MS, 145
- Computer Science PhD, 136
- Computer Science MS, 126
- Informatics PHD, 110
- Library Science MLS, 89
- Human Comp Interaction MS, 85
- Intelligent Systems Engineering PhD, 69
- Information Science MIS, 36
- Data Science GR CRT, 34
- Information Science PHD, 25
- Computer Sci-BS/MS, 20
- Intelligent Systems Engineering MS, 11
- Cybersecurity GR CRT, 7
- Secure Computing MS, 6
- Informatics MS, 5
- Information Architecture GR CRT, 1
- Bioinformatics MS, 0

Major Undergraduate Initiatives

- Direct Admission
- Living-Learning Center
- International Experience
- Undergraduate Research
- Diversity
- Computing Education Outreach

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Direct Admission

- Students admitted to IU
 - Directly admitted to the major
 - Admitted to University Division, as a premajor
 - Admitted to University Division, exploratory

Direct Admission

- Students admitted to IU
 - Directly admitted to the major
 - Admitted to University Division, as a premajor
 - Admitted to University Division, exploratory
- Idea: Grow the cohort size in the first category above

Direct Admission by the Numbers (Info and CS)

Year	Total admits	Direct Admits	Direct/Total
2013	212	30	14%
2014	231	52	23%
2015	282	88	31%
2016	280	101	36%
2017	278	98	35%
2018	326	117	36%

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Direct Admission by the Numbers (ISE)

Year	Total admits	Direct Admits	Direct/Total
2016	36	25	70%
2017	35	27	77%
2018	63	53	84%

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Support System for DAs

- Scholarship
- A new course, CSCI-C102 Great Ideas in Computing
- Various programs designed by Student Services staff
- InWIC trip for female freshman students
- GHC trip for female junior students

Living-Learning Center

- Student Engagement and Success
- Teter Hall, 5th floor, 54 students, co-ed
- Direct admit, premajors, and returning higher level students
- Started in Fall 2017
- Two floors in 2020!

• Long-term plans (Exchange Programs):

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- Long-term plans (Exchange Programs):
 - Sungkyunkwan University (SKKU), Department of Library and Information Science/Data Science
 - Sungkyunkwan University (SKKU), CICE and CS

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 - University of Mannheim, School of Business Informatics and Mathematics
 - O University of Edinburgh, School of Informatics

• Short-term plans

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Short-term plans

IT in Emerging Markets-India , Fall 2016
 New Delhi + Pune, December 27, 2016-January 7, 2017.
 Repeated in 2018, and 2019.
 Special focus: Digital India Program

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- Other offerings with India and different foci

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 Special focus: Digital India Program
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- International Serve/Teach-IT (Belize: 2015, 2018)

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- Opportunities to develop skills for working in teams, staying focused, accepting uncertainty
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- Opportunities to develop skills for working in teams, staying focused, accepting uncertainty
- Opportunities for early encounters with faculty and graduate students
- Setting bigger goals:
 - Competitions: e.g. ACM's Student Research Competition, ...
 - Publications: IU Journal of Undergraduate Research, ...
 - Senior Thesis Award

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Diversity

- Three times NCWIT Pacesetter Team!
- Collaborative plans with Hudson & Holland Scholars Programs and Groups Scholars Program
- Various programming for women and URM in computing

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 K-12, teacher training, CS education: (source: https://code.org/advocacy/state-facts/IN.pdf)

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 - 90% of parents in US want their child's school to teach CS but only 35% of schools teach it.
 - Of 67% of parents and 56% of teachers in US believe students should be required to learn CS.

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 - Only 93 schools in IN (22% of IN schools with AP programs) offered an AP CS course in 2017-18
 - Universities in Indiana only graduated 1 new teacher prepared to teach CS in 2016.

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- Indiana is one of the 28 states in US with K-12 CS standards.

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- Universities in Indiana only graduated 1 new teacher prepared to teach CS in 2016.
- Indiana is one of the 28 states in US with K-12 CS standards.
- 4,511 open computing jobs (2.6 times the state average demand rate), approx. \$340M opportunity.

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• BSc in Data Science

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- BSc in Data Science
- BSc in Cybersecurity and Global Policy (SICE + HLS partnership)

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- BSc in Data Science
- BSc in Cybersecurity and Global Policy (SICE + HLS partnership)
- Game Development specialization (CS Program, in collaboration with the Media School)

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- A graduate program in AI
- Experiential learning in Silicon Valley

Major Graduate Initiatives

- Centralization of GSOs
- Aggressive Recruiting Strategies
- Digital Strategies
- PhD Pipeline (GTAP)
- Diversity and Inclusion (AI/ UI training, ...)
- In-service professional training for secondary school teachers
- International student support
- Redefining master's programs

Thank You!

ehaghver@indiana.edu

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Image: A matrix

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