#### 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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- 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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- 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
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- 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

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- 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	<b>Direct Admits</b>	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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  - Oual degree in Computer Science (Fudan University/SICE 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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- Other offerings with India and different foci
- IT in Emerging Markets-China in collaboration with Fudan University and Tsinghua University
- International Serve/Teach-IT (Belize: 2015, 2018)

#### • UROC and SROC, numbers up steadily

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- Opportunities for early encounters with real world problems
- Opportunities to develop skills for working in teams, staying focused, accepting uncertainty
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- Opportunities for early encounters with real world problems
- 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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  - Of 67% of parents and 56% of teachers in US believe students should be required to learn CS.

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  - 67% of parents and 56% of teachers in US believe students should be required to learn CS.
  - 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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- 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
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- Game Development specialization (CS Program, in collaboration with the Media School)

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- BSc in User Experience Design (SICE + SoAAD)
- 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!

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Esfan HaghverdiExecutive Associate Dean forOffice of the Associate Dean for Academic Af February 22, 2019 31 / 31

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