

## **IIS CAREER Office Hours**

**Jie Yang, PhD: Robust Intelligence**

**Sylvia Spengler, PhD: Information Integration  
Informatics**

**Cindy Bethel, PhD: Human-Centered Computing**

**May 15, 2025**



# National Science Foundation's Mission

***“To promote the progress of science to advance the national health, prosperity, and welfare; to secure the national defense...”***



# CISE Organization and Leadership

**Office of the  
Assistant  
Director**



**Ellen Zegura  
Acting Assistant  
Director**



**Joydip Kundu  
Deputy Assistant  
Director**



**Division of Computer  
and Network Systems  
(CNS)**



**Ellen Zegura  
Division Director**



**Behrooz Shirazi  
Deputy Division  
Director**



**Division of Computing  
and Communication  
Foundations (CCF)**



**Dilma DaSilva  
Division Director**



**Irina Dolinskaya  
Deputy Division  
Director**



**Division of Information  
and Intelligent Systems  
(IIS)**



**Michael Littman  
Division Director**



**Wendy Nilsen  
Deputy Division  
Director**



**Office of Advanced  
Cyberinfrastructure  
(OAC)**



**Katie Antypas  
Office Director**



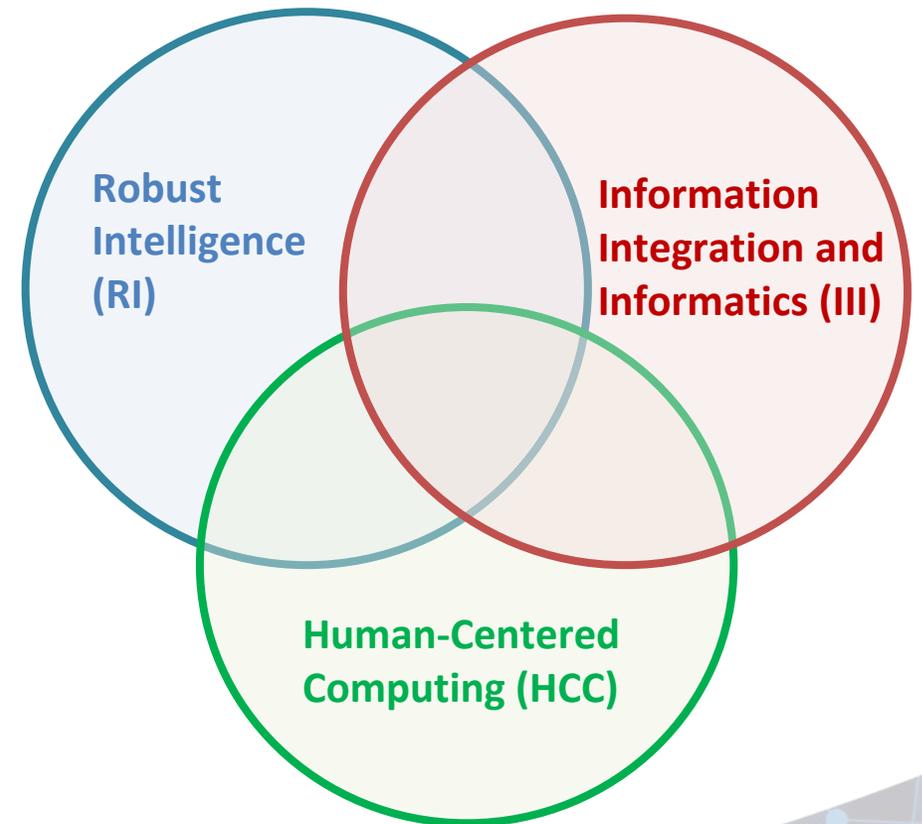
**Amy Walton  
Deputy Office  
Director**



# Information and Intelligent Systems

IIS supports research in the inter-related roles of people, computers, and information.

IIS includes three core programs: Human-Centered Computing (HCC), Information Integration and Informatics (III), and Robust Intelligence (RI). There is also the Foundational Research in Robotics program.



# Human-Centered Computing (HCC)

*Mission:* Accelerate creation of new human-centered computing technology

- Advance our understanding of the complex and increasingly coupled relationships between humans and computing systems.
- Advance multiple dimensions of human capabilities:
  - perceptual and cognitive
  - physical and virtual
  - social and societal
- HCC research is central to how humans work, learn, and live in a world abundant with computers and blanketed by networks.

# Information Integration and Informatics (III)

**Mission:** Realize the full transformative potential of data, information and knowledge in this increasingly digital and interconnected world

- **Areas of emphasis:**

- Data of unprecedented scale, complexity, and rate of acquisition
- Issues of heterogeneity and complexity
- Diverse functionalities and processing needs for data, information and knowledge from disparate and uncoordinated sources
- Coping with the changing landscape of computing platforms at scales ranging from small mobile devices to potentially global-scale cloud and networked computing resources
- Focus on variety of dimensions, including scalability, interactivity, or scientific, technological or societal impact

# Robust Intelligence (RI) Core



***Mission:*** Encompasses all aspects of the computational understanding and modeling of intelligence in complex and realistic contexts

- ***Is characterized by:***
  - a system's flexibility, resourcefulness, use of a variety of modeling or reasoning approaches, and use of real-world data in real time, demonstrating a level of intelligence and adaptability seen in humans and animals
- ***Advances and integrates the research traditions of:***
  - artificial intelligence, computer vision, human language research, robotics, machine learning, computational neuroscience, cognitive science, and related areas



# What is CAREER?

## Intent

- Provide stable support at a sufficient level and duration
- Enabling careers as
  - Outstanding researchers
  - Outstanding educators

## Program website

- <https://new.nsf.gov/funding/opportunities/faculty-early-career-development-program-career>

## Deadline

- July 23, 2025

## What is CAREER?

**CAREER is not meant to recognize outstanding scholarship, but to enable it.**

We encourage to submit your first CAREER proposal when your proposal is ready.

# NSF priorities

Updates on NSF priorities

- <https://www.nsf.gov/updates-on-priorities>

NSF implementation of recent Executive Orders

- <https://www.nsf.gov/executive-orders>



# We accomplish our mission by supporting you.

Send us your proposals.



Tell us about your triumphs.



Become a reviewer.



Talk to our program officers.



<https://new.nsf.gov/cise>

