Introduction to Agencies

Arvind Krishnamurthy

Ming C. Lin

MING C. LIN

- **Distinguished University Professor, Barry Mersky & Capital One E-Nnovate Endowed Professor**
- **University of Maryland at College Park**
- **Research Areas:**
  - *AI/ML/Robotics*
  - *Virtual Reality*
  - *Human-Computer Interaction*
  - *Physically-based Modelling & Simulation*
  - *Visual Computing*
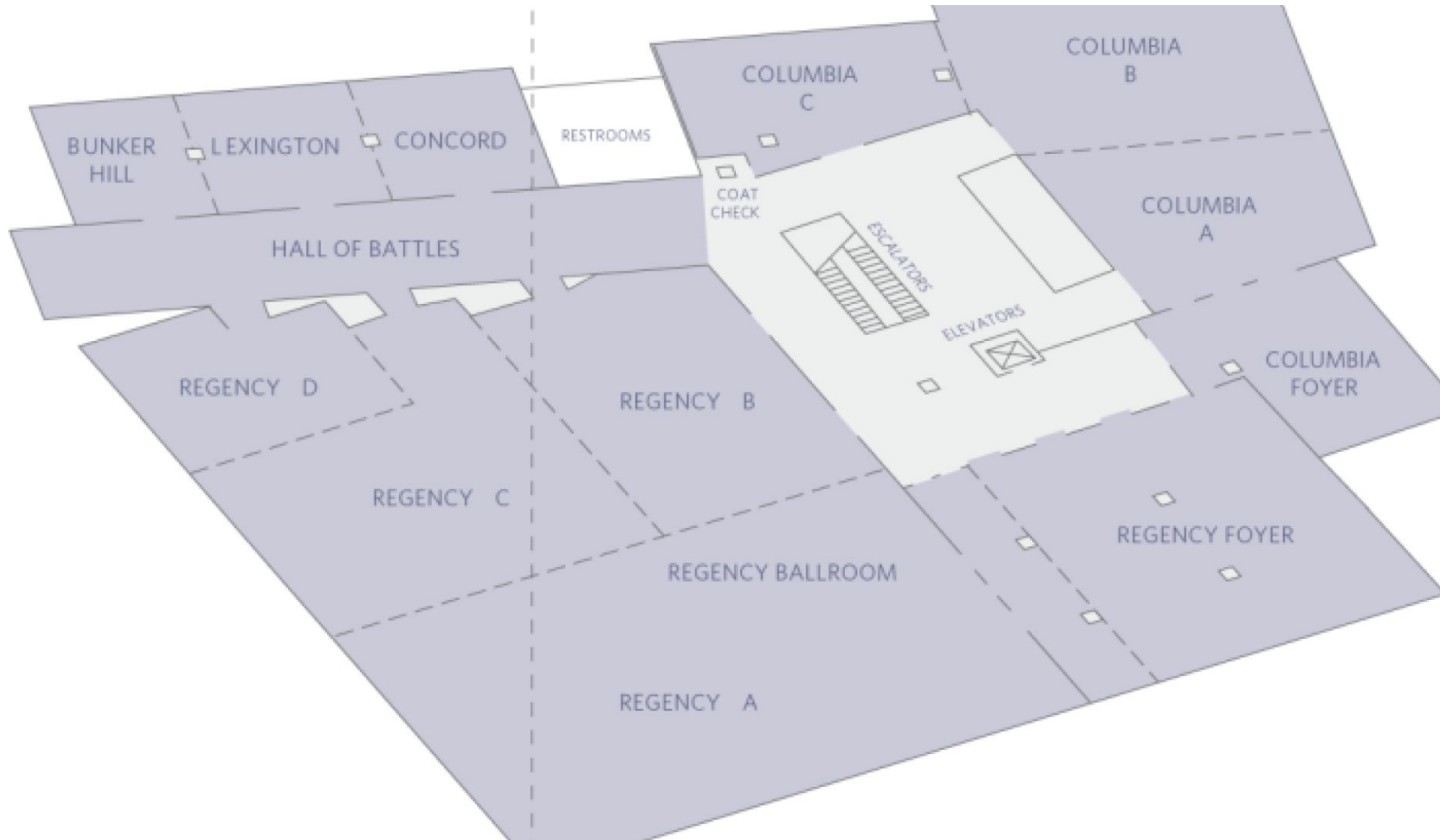
http://www.cs.umd.edu/~lin

Arvind Krishnamurthy

- **Short-Dooley Professor**
- **University of Washington**
- **Research Areas:**
  - Distributed systems
  - Networks
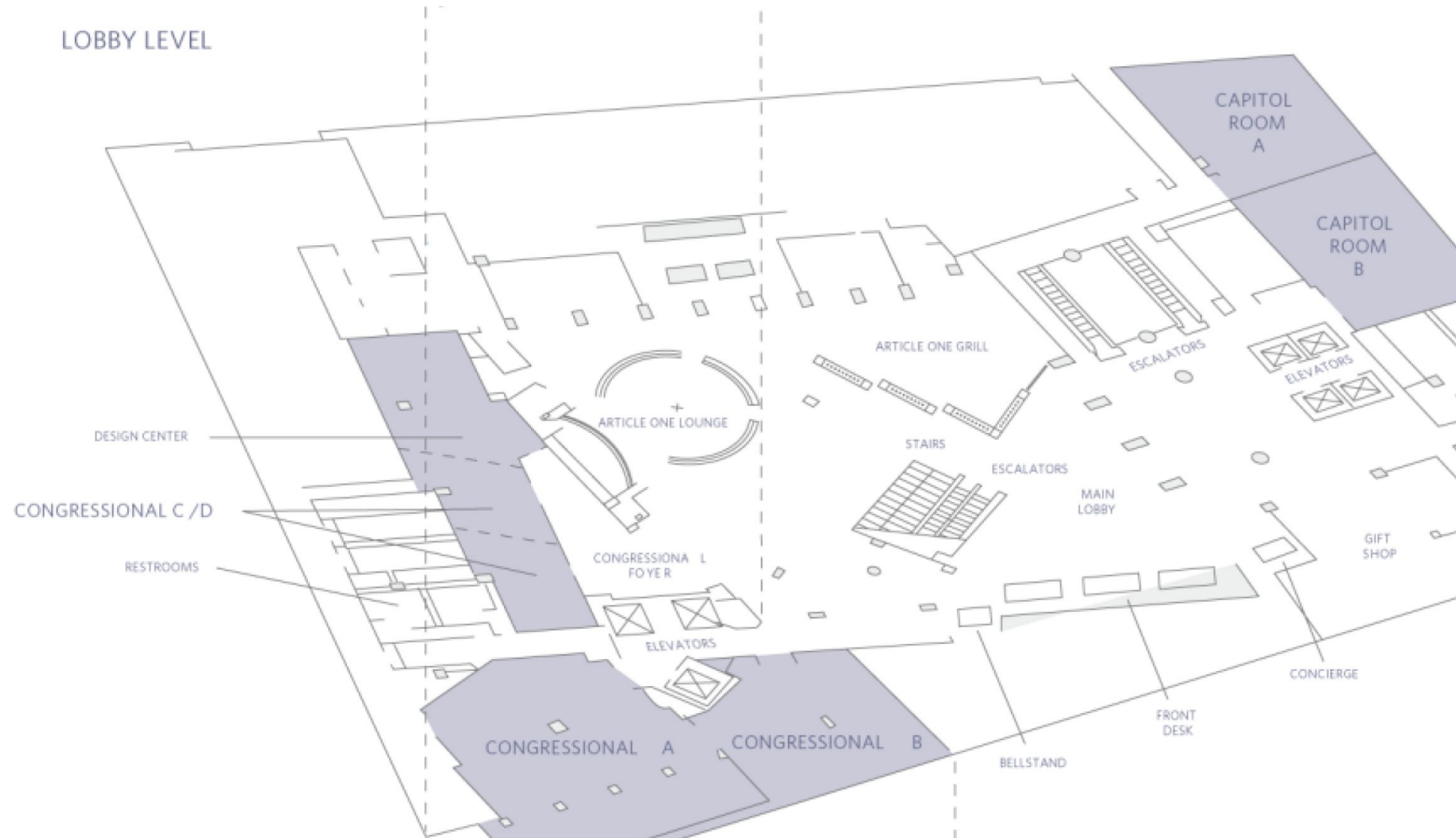 - Operating systems
  - Security

https://www.cs.washington.edu/people/faculty/arvind

Room Layout: Ballroom Level

Room Layout: Lobby - Congressional AB

ALHUSSEIN A. ABOUZEID @ Regency Foyer

- **Program Director**
- **Division of Computer and Network Systems (CNS), Directorate for Computer and Information Science and Engineering (CISE), National Science Foundation (NSF)**
- **Program Areas**
  - *NeTS*
  - *RINGS*
  - *SII - SWIFT*
  - *AI Institutes*
  - *FMitF*

https://new.nsf.gov/funding/opportunities/cns-networking-technology-systems-nets

ALVARO VELASQUEZ @ Bunker Hill

- **Program Manager**
- **DARPA**
- **Program Areas**
  - *Neuro-Symbolic AI*
  - *Sim-to-Real Transfer Learning*
  - *AI for Scientific Discovery (e.g., SciML)*
  - *Combinatorial Optimization*
  - *Adversarial AI*

https://www.darpa.mil/staff/dr-alvaro-velasquez

ANDREW CARNEY @ Columbia AB

- **Program Manger, Resilient Systems**
- **Advanced Research Projects Agency for Health (ARPA-H)**
- **Program Areas**
  - *Medical device cybersecurity*
  - *Automated program repair*
  - *Human factors research*

https://arpa-h.gov/about/people/andrew-carney

ANINDYA BANERJEE @ Columbia AB

- **Program Director**
- **National Science Foundation (NSF)**
  - Computer & Information Science & Engineering
    - Computing & Communication Foundations
      - Software & Hardware Foundations
- **Program Areas:**
  - *Programming Languages*
  - *Type Systems*
  - *Concurrency and Parallelism*
  - *Compilers*
  - *Formal Methods in the Field*
  - *Safe Learning Enabled Systems*

https://new.nsf.gov/cise/ccf
https://dblp.org/pid/65/1920.html

AURALI DADE @ Congressional AB

- **Program Director**
- **National Science Foundation**
- **Program Areas**
  - *Innovation and Solution Development*
  - *Partnerships*
  - *Societal Impact*
  - *Networked Blue Economy*

https://new.nsf.gov/funding/initiatives
/convergence-accelerator

CANG YE @ Regency Foyer

- **Program Director**
- **National Science Foundation**
- **Program Areas**
  - *Foundational Research in Robotics*
  - *Robust Intelligence*
  - *Safe Learning-Enabled Systems*
  - *Mid-Scale Research Infrastructure-2*

https://www.people.vcu.edu/~cye

DAN COSLEY @ Regency Foyer

- **Program Officer**
- **National Science Foundation**
- **Program Areas**
  - *Human-Centered Computing*
  - *Secure and Trustworthy Cyberspace*
  - *RITEL (Innovative Tech for Ed/Learning)*
  - *Other programs as needed*

`https://www.nsf.gov/staff/staff_bio.jsp?lan=dcosley

Dmitri Perkins @ Congressional AB

- **Professor**
  University of Maryland, Baltimore County

- **Program Director, National Science Foundation**
  NSF Regional Innovation Engines Program
  Technology, Innovation and Partnerships Directorate

- **Research Areas:**
  - Wireless and Mobile Networking
  - Terahertz Communication
  - Dynamic Spectrum Sharing
  - Cross-layer Designs
  - Multi-hop Wireless Networks
  - Sensor Networks
  - Design of Experiments and Performance Evaluation

www.csee.umbc.edu/~dmitrip1/

FENGLOU MAO @ Columbia AB

- **Program Officer**
- **National Institutes of Health**
- **Program Areas**
  - *Cloud Computing*
  - *Digital Twins*
  - *Quantum Computing*
  - *Smart Health*

https://datascience.nih.gov/about/staff

HAL GREENWALD @ Lexington

Program Officer, Air Force Office of Scientific Research
Funds high-risk/high-impact basic research for benefit of Air Force, Space Force, & DoD

- **Computational Cognition & Machine Intelligence Program**
  - AI, autonomy, reasoning, decision making, planning, machine side of HMT
  - Does NOT fund statistical/deep machine learning research
  Job opportunity for a permanent, full-time program officer to manage this program

- **Cognitive & Computational Neuroscience Program**
  - Mechanisms of perception, cognition, & behavior
  - Basic research at intersection of neuroscience & AI

- **Science of Information, Computation, Learning & Fusion Program**
  (Program Officer: Doug Riecken)

JEFF FORBES @ Congressional AB

- **Program Director**
- **CISE Education & Workforce**
- **Program Areas**
  - *Computing Education*
  - *Broadening Participation in Computing*
  - *Innovative Technologies for Enhanced Learning*

https://www.nsf.gov/staff/staff_bio.jsp?lan=jforbes

JEREMY EPSTEIN @ Regency Foyer

CRA Computing Research Association

- **Program Officer**
- **Secure and Trustworthy Cyberspace**
- **CISE/CNS**
- **Program Areas**
  - *Anything having to do with cybersecurity or privacy*

www.linkedin.com/in/jepstein

JUAN JENNY LI @ Congressional AB

- **Program Director / Professor**
- **NSF-CISE / Kean University**
- **Program Areas**
  - *OAC-CRII*
  - *OAC-CAREER*
  - *OAC-CORE*
  - *OAC-CyberTraining*
  - *Other OAC Learning & Workforce Development (LWD) programs*

Juan Jenny Li | NSF - National Science Foundation

JUAN P WACHS @ Regency Foyer

- **Program Director**
- **National Science Foundation**
- **Program Areas**
  - *Foundational Research in Robotics*
  - *Robust Intelligence*
  - *AI Institutes*
  - *Collaborative Research in Computational Neuroscience*
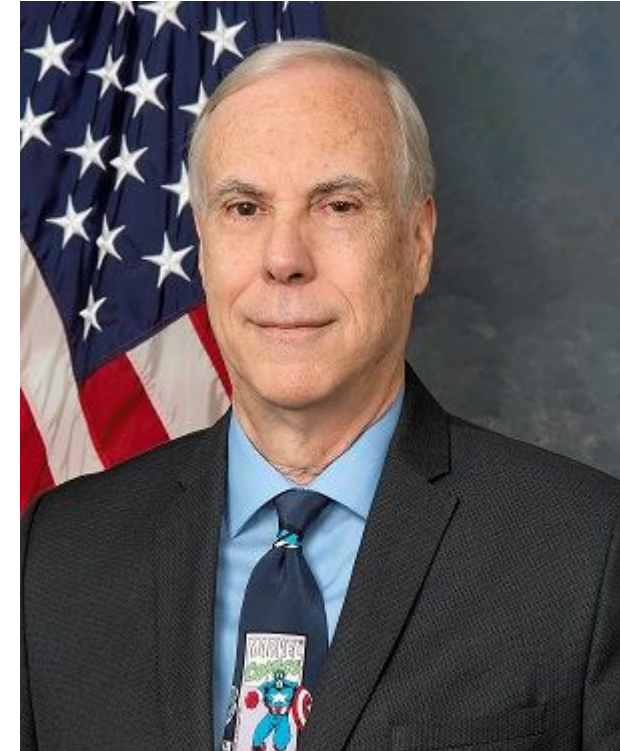 - *Smart Health and Biomedical Research in the Era of Artificial Intelligence*

https://www.nsf.gov/staff/staff_bio.jsp?lan=jwachs&org=NSF&from_org=NSF

https://web.ics.purdue.edu/~jpwachs/

MICHAEL COYLE @ Lexington

- **Network, Cyber, & Computer Sciences Branch Chief**
- **DEVCOM ARL Army Research Office**
- **Program Areas**
  - *Information Assurance*
  - *Wireless & Hybrid Communication Networks*
  - *Computational Mathematics*

https://arl.devcom.army.mil

NILU KUNDAGRAMI @ Columbia AB

- **Head, Program Facing Technology Services**
- **ARPA-H**
- **Program Areas**
  - *Cloud computing*
  - *High performance computing*
  - *AI/ML*
  - *Networking*

www.arpa-h.gov

PARVATHI CHUNDI @ Congressional AB

- **Program Director**
- **NSF – TIP Directorate (Technology, Innovation, and Partnerships)**
- **SBIR/STTR Program**
  - *Advanced Systems for Scalable Analytics*
  - *Artificial Intelligence*

http://seedfund.nsf.gov

PAUL TYMANN @ Congressional AB

- **Program Director**
- **National Science Foundation**
- **Program Areas**
  - *CS Ed Research*
  - *First year computing*
  - *Parallel/Distributed Computing*
  - *Networking*

https:www.cs.rit.edu/~ptt

PETER BRASS @ Columbia AB

- **Program Director (Rotator/IPA)**
  Professor, City College New York, CUNY
- **NSF CISE CCF**
- **Program Areas**
  - *Algorithms (AF (Lead))*
  - *Robotics (FRR)*
  - *Undergraduate research (REU Sites)*

https://www.nsf.gov/staff/staff_bio.jsp?lan=pbrass&org=NSF&from_org=NSF

RAM D. SRIRAM @ Concord

- **Chief, Software and Systems Division, Information Technology Laboratory**
- **National Institute of Standards and Technology**
- **Research Areas**
  - *Artificial Intelligence*
  - *Software Engineering*
  - *Health Information Technology*
  - *High Performance Computing*
  - *Smart Manufacturing*

https://www.nist.gov/people/ram-d-sriram

ROBINSON PINO @ Concord

- **Program Manager**
- **DOE Office of Science, Advanced Scientific Computing Research**
- **Program Areas**
  - *Artificial Intelligence*
  - *Microelectronics*
  - *Neuromorphic Computing*
  - *Advanced Wireless*

https://www.linkedin.com/in/drpino/

Room Assignment: Bunker Hill

- **Alvaro Velasquez,** *DARPA*
- **Dan Wallach,** *DARPA*

Room Assignment: Lexington

- **Mike Coyle**, *ARO*
- **Hal Greenwald**, *AFOSR*

Room Assignment: Concord

- **Robinson Pino**, *DOE*
- **Ram Sriram**, *NIST*

Room Assignment: Columbia AB

- **Andrew Carney**, *ARPA-H*
- **Nilu Kundagrami**, *ARPA-H*

- **Fenglou Mao**, *NIH*

- **Anindya Banerjee**, *NSF CCF*
- **Peter Brass**, *NSF CCF*

Room Assignment: Regency Foyer

- **Hussein Abouzeid**, *NSF CNS*
- **Jeremy Epstein**, *NSF CNS*

- **Cang Ye**, *NSF IIS*
- **Dan Cosley,** *NSF IIS*
- **Juan Wachs**, *NSF IIS*

Room Assignment: Congressional AB

- **Jeff Forbes**, *NSF BPC*

- **Paul Tymann**, *NSF DUE*

- **Jen Li**, *NSF OAC*

- **Aurali Dade**, *NSF TIP*
- **Dmitri Perkins**, *NSF TIP*
- **Parvathi Chundi**, *NSF TIP*

Breakout Sessions: Small Group Meeting

Bunker Hill

- **Alvaro Velasquez,** *DARPA*
- **Dan Wallach,** *DARPA*

Lexington

- **Mike Coyle**, *ARO*
- **Hal Greenwald**, *AFOSR*

Concord

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- **Ram Sriram**, *NIST*

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- **Nilu Kundagrami**, *ARPA-H*

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- **Jen Li**, *NSF OAC*
- **Aurali Dade**, *NSF TIP*
- **Dmitri Perkins**, *NSF TIP*
- **Parvathi Chundi**, *NSF TIP*

Questions?