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 Manager, 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

[Photo]

[URL: https://www.nsf.gov/staff/staff_bio.jsp?lan=dcosley]
DAN S. WALLACH @ Bunker Hill

- Program Manager, DARPA I2O (Information Innovation Office)
- Professor, CS Dept, Rice University (on leave)
- Program Areas
  - Computer systems security
  - Applied cryptography
  - Programming language tools
  - Electronic voting systems

https://www.darpa.mil/staff/dr-dan-wallach
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

[Link to website](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
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

- 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 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://web.ics.purdue.edu/~ipwachs/
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?la=n=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
- Robinson Pino, DOE
- Ram Sriram, NIST

Columbia AB
- Andrew Carney, ARPA-H
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- Peter Brass, NSF CCF

Regency Foyer
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- Dmitri Perkins, NSF TIP
- Parvathi Chundi, NSF TIP
Questions?