New Faculty Orientation

Welcome and Overview

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USC Viterbi
School of Engineering

University of Southern California

New and Recent T/TT Faculty Hires

Assistant Professors

- Rui (Ray) Xu, AME***
- Vasileios Christopoulos, BME**
- Yaoheng (Mack) Yang, BME***
- Kandis (Leslie) Abdul Aziz, CEE*
- Jiachen Zhang, CEE*
- Ruolin Li, CEE**
- Mengyuan Li, CS**
- Paraskevi (Evi) Micha, CS**
- Ruishan Liu, CS*
- Sai Praneeth Reddy Karimireddy, CS**

- Willie Neiswanger, CS*
- Corey Baker, ECE*
- Stephen L. Tu, ECE*
- Paria Rashidinejad, ECE***
- Camilo Hernandez, ISE**
- Karthyek Murthy, ISE***
- Luis Francisco (Paco) Villalobos, MFD*

Associate Professors

- Wen Chen, AME***

Professors

- Krishna Garikipati, AME*
- Johannes Royset, ISE*
- Corrine Packard, MFD**

*   Joined in Spring 2024
**   Joined in Fall (or Summer) 2024
***   Joins in Spring 2025

New and Recent RTPC Faculty Hires

Lecturers
- Carter Slocum, CS**
- Hannah Nguyen, ITP**

Senior Lecturers
- Shaoying (Kathy) Lu, BME***
- John Mai, BME*
- Szabo Mate, CS**
- Tao Ma, ISE**
- Martin Prescher, ITP**
- Barrett Koster, ITP**

Research Assistant Professors
- Luca Luceri, CS**

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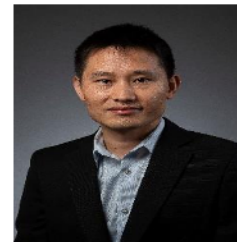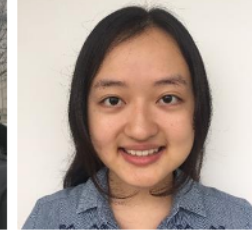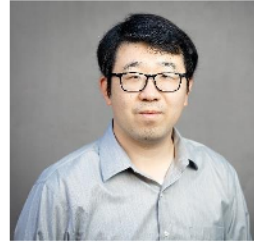- Karthyek Murthy, ISE***
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USC at a Glance*

USC Academic Units (22)
- USC Dornsife College, Bovard College, USC Libraries, 20 Professional Schools (includes new SAC)

USC Faculty (over 8,600 total)
- Approximately 4,767 full-time faculty: ~1,500 T/TT faculty; ~3,100 full-time Research, Teaching, Practice, and Clinical (RTPC) faculty; Approximately 2,000 part-time faculty
- Over 150 elected fellows of prestigious societies (AAAS, AAAI, ACM, APS, ALI,…)
- Over 50 affiliated faculty in National Academies (NAS, NAE, IOM)
- 24 Total number of faculty members that have been awarded a Nobel Prize, MacArthur "genius grants" or a National Medal

USC Students (~47,000 total)
- Approximately 21,000 undergrads; 26,000 graduate & professional students
- Degrees awarded (2023): 5,440 Bachelor's; 14,105 advanced (graduate); over 450,000 living alumni

Annual Research Expenditures (FY'20-21) and Endowment (as of June 2022)
- Approximately $955.6 million in sponsored research; $7.3 billion in endowment

Viterbi School at a Glance*

Viterbi Academic Units: new School of Advance Computing (SAC) includes CS, ECE, ITP, and affinity faculty
- Dept's: AME, ASTE, BME (Mann), CEE (Astani), CHEMS (Mork), CS (Lord), ECE (Ming Hsieh), ISE (Epstein)
- Academic Program Units (non-degree granting): EiS, ITP

Viterbi Faculty
- Over 310 full-time faculty: ~213 T/TT; ~132 Research and Teaching (including Practice)
- > 100 elected fellows of prestigious societies (AAAI, AAAS, APS, ASME, ACM, BMES, IEEE, …)
- > 110 NSF Career, Presidential Young Investigator, and/or PECASE Awardees**
- > 120 endowed early or mid-career chairs/professorships and senior career chairs/professorships
- at least 16 full-time (and ~40 affiliated) faculty who are NAE members; > 20 are NAI members

Viterbi Students
- Approximately 9,941 total: ~3,000 undergrads; ~6,900 grad students (Fall 2022)
- Over 101,000 alumni
- Typically within the Top 10-12 Graduate Engineering Schools (U.S. News & World Report)

Viterbi Annual Research Expenditures (~ 1/4th of USC's)
- Typically over ~$177 million; more than 45 Research Centers and Institutes

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* https://viterbischool.usc.edu/viterbi-at-a-glance/
** 15 MIT TR-35 Honorees since 2009

Viterbi Academic Programs*

Academic Programs
- **14 BS programs**
- **21 active minors**
  - **67 Master's programs**
    - **41 Master's programs and 5 grad certificates on-line via DEN@Viterbi**
- **13 Doctoral programs**

Education, Outside-the-Curriculum, and Outreach Efforts
- **KIUEL (Klein Institute for Undergraduate Engineering Life)**
- **K-12 STEM Center, DEI outreach (https://viterbik12.usc.edu/)**
- **Center for Engineering Diversity (https://viterbiundergrad.usc.edu/diversity/center-for-engineering-diversity/)**
- **Maseeh Entrepreneurship Prize Competition (MEPC)**
- **Min Family Engineering Social Entrepreneurship Challenge**
- **USC Viterbi Student Innovation Institute (VSI2) and Viterbi Startup Garage**
- **Student-led efforts (Rocket Propulsion Lab, USC Racing Team, ...)**

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Useful USC Resources

Policies and Faculty Portals

- **Policies, Faculty Handbook, UCAPT Manual, strategic vision, & core doc's**
  http://policy.usc.edu
- **Faculty resources, governance, support, guides, calendars, news, events**
  http://faculty.usc.edu
- **Useful links and information (e.g., for new faculty (T/TT & RTPC), Chairs/Directors, mentors)**
  https://employees.usc.edu/

Work Well Center

- **https://workwell.usc.edu/**

Center for Excellence in Research (CER)

- **Proposal writing workshops, proposal review, funding opportunities, …**
  https://orif.usc.edu/cer/

Center for Excellence in Teaching (CET)

- **Workshops, seminars, programs, and resources for teaching innovation http://cet.usc.edu/**
- **See the CET Faculty Teaching Institute: http://cet.usc.edu/institutes/**

Useful Viterbi Resources

Viterbi Research Portal

- **Funding opportunities, research centers/labs, other info for faculty:**
  http://viterbischool.usc.edu/faculty/faculty-research-resources/

Viterbi Faculty Portal

- **School policies, academic integrity, useful links, and other resources:**
  https://viterbischool.usc.edu/faculty/

Viterbi Mentoring Program

- **Mentorship of junior faculty**
- **WiSE Program (https://wise.usc.edu/)**
- **Mentor-mentee and peer-mentoring luncheons sponsored by the School**
- **Annual group mentoring sessions (Vice Dean for Faculty Affairs)**
- **NSF Career proposal internal review (Vice Dean for Research)**
- **Understand mentoring roles, responsibilities, benefits and expectations—identify your needs and set attainable goals: https://viterbischool.usc.edu/faculty/#Mentoring**

Graduate Recruitment

USC and Viterbi Ph.D. Fellowships and Awards

- **Provost, Annenberg, Viterbi, Mork, Alfred Mann, Ming Hsieh, Chevron Fellowships**
- **Viterbi Supplemental, Merit Top-off, WiSE Top-off, GEM and other Top-off Awards**
  https://viterbigradadmission.usc.edu/doctoral/phddegrees/

On-Campus Student Recruitment Events

- **Graduate Engineering Preview Day**
  https://viterbigradadmission.usc.edu/events/mspreview/
- **_S_tep _T_owards _E_ngineering _P_rograms (PhD Preview)**
  https://viterbigradadmission.usc.edu/graduate-diversity/step/
- **Conversion Visitation Days each Spring (coordinated by departments)**