



2019 Data: **CBE GRADUATE PROGRAM**

January 1, 2021 – December 31, 2021

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## 1. 2021 CBE GRADUATE DEGREE RECIPIENTS

### Spring 2021 Graduate School Degree Recipients

#### **Master of Science**

##### **Graduates**

Kalyani Jangam  
Joseph Kolb  
Rajdeep Mamtani  
Amrita Sen  
Vivek Vattyam

##### **Advisors**

Liang-Shih Fan  
Nicholas Brunelli  
William Wang  
Bhavik Bakshi  
Bhavik Bakshi

#### **Doctor of Philosophy**

##### **Graduates**

Yu-Yen Chen  
Eun Hyun Cho  
Jackelyn Galiardi  
Vance Gustin  
Richard Hickey  
Yan Liu  
Pinaki Ranadive  
Fengli Zhang

##### **Advisors**

Liang-Shih Fan  
Li-Chiang Lin  
David Wood  
Umit Ozkan  
Andre Palmer  
Liang-Shih Fan  
Nicholas Brunelli  
Shang-Tian Yang



## Summer 2021 Graduate School Degree Recipients

### **Master of Science**

#### **Graduates**

Clayton Cuddington  
Jonathan Hightower  
Robert Dupont  
Naitik Choksi

#### **Advisors**

Andre Palmer  
Aravind Asthagiri  
William Wang  
Joel Paulson

### **Doctor of Philosophy**

#### **Graduates**

Vedant Shah  
Michael Charles  
Wenhan Jia

#### **Advisors**

Liang-Shih Fan  
Bhavik Bakshi  
Isamu Kusaka

## Autumn 2021 Graduate School Degree Recipients

### **Master of Science**

#### **Graduates**

Nicholas Liesen  
Archit Datar  
Anuj Joshi  
Pinak Mohapatra  
Nathan Moody  
Caroline Watt  
Jingjing Zhang

#### **Advisors**

Isamu Kusaka and Lisa Hall  
Aravind Asthagiri and Li-Chiang Lin  
Liang-Shih Fan  
Liang-Shih Fan  
David Wood  
Liang-Shih Fan  
Eduardo Reategui

### **Doctor of Philosophy**

#### **Graduates**

Xuepeng Deng  
Junjie Pan  
Yaswanth Pottimurthy  
Joseph Taris

#### **Advisors**

Winston Ho and Li-Chiang Lin  
L. James Lee  
Liang-Shih Fan  
David Wood



## 2. 2021 GRADUATE FELLOWSHIPS

### University Fellowship

Tanmay Salvi

### College of Engineering Graduate Fellowship

Sophia Mayone

### Engie Axium Fellowship

Hannah Pineault

### Triplett Fellowship

Hannah Pineault

### Brodkey Scholarship: (awarded in January 2021)

- Ashin Antony Sunny
- Snehal Patil
- Leah Ford
- Alisyn Greenfield



## 3. NATIONAL STUDENT AWARDS

### **American Association for Aerosol Research (AAAR)**

*Presentation Award, AAAR 2021 Annual Meeting:*

- Jiaqi Luo (Wyslouzil Group)

### **American Chemical Society**

*ACS Energy and Fuels Division, Third Place, Student Presentation Award Competition (SPAC):*

- Anuj Joshi (Fan Group)

*ACS Indiana Section, PREDICT 2021, First Place in Session One, Graduate Student Lightning Talk:*

- Faiz Khan (Winter Group)

*ACS 2021 Great Lakes Regional Meeting, Presentation Awards:*

- Jiaqi Luo and Tong Sun (Wyslouzil Group)

### **AIChE**

*AIChE Catalysis and Reaction Engineering Division, 2021 Travel Award:*

- Anagha Hunoor (Ozkan Group)

### **Korean-American Scientists & Engineers Association / Korea-U.S. Science Cooperation Center**

*KSEA-KUSCO 2021 Graduate Award:*

- Dongjoon Kim (Asthagiri Group)



## **National Organization for the Professional Advancement of Black Chemists and Chemical Engineers (NOBCChE)**

*Second Place, Best Poster, 2021 Inaugural Collaborative Research Poster Competition:*

- Jonathan Hightower (AsthaGiri Group)

## **North American Membrane Society (NAMS)**

*2021 Elias Klein Founders' Travel Award:*

- Andrew Deng (Ho Group)
- Yutong Yang (Ho Group)

## **Prevent Blindness**

*2021 Prevent Blindness Young Investigator Research Fellowship:*

- Megan Allyn (Swindle-Reilly and Palmer Groups)



## 4. LOCAL STUDENT AWARDS

### **CBE Graduate Research Symposium**

*Oral Session winners:*

- Nicole Walters (Reategui)
- Archit Datar (Lin)
- Alex Spanos (Brunelli)

*Poster Session winners:*

- Pinak Mohapatra (Fan)
- Faiz Khan (Winter)
- Jacob Strayer (Chalmers)

### **OSU Council of Graduate Students**

*Edward J. Ray Travel Award for Service and Scholarship:*

- Pinak Mohapatra (Fan Group)
- Dongjoon Kim (Asthagiri Group)

### **OSU Hayes Graduate Research Forum**

*First Place, Engineering Poster Presentation:*

- Faiz Khan (Winter)

### **OSU Korean Graduate Student Association**

*Outstanding New Student Organization Award:*

- Dongjoon Kim, founder and president (Asthagiri Group)



## **OSU Office of International Affairs**

*International Leadership Scholarship:*

- Dongjoon Kim (Asthagiri Group)

## **OSU Office of Research and the Office of Environmental Health and Safety**

*University Laboratory Safety Committee, 2021 Group Excellence in Safety Award:*

- ChyComm (Chemical Hygiene Committee)
  - Richard Hickey, chair
  - Kayane Dingilian, vice chair
  - Elizabeth Jergens, inspection coordinator
  - Vance Gustin, inspection coordinator

*2021 Dean's List for Laboratory Safety:*

- Umit Ozkan Heterogeneous Catalysis Laboratory



## 5. GRADUATE PROGRAM SEMINARS

### Spring 2021

- 1/14 Karl Johnson**, W.K. Whiteford Professor, Chemical and Petroleum Engineering, University of Pittsburgh, “Machine Learning Potentials for Large-Scale Simulations with Quantum Mechanical Accuracy”
- 1/21 Ignacio Grossman**, Rudolph R. and Florence Dean University Professor, Chemical Engineering, Carnegie Mellon University, “Challenges in the Application of Mathematical Programming Approaches to Enterprise-wide Optimization of Process Industries”
- 1/28 Ruilan Guo**, Frank M. Freimann Associate Professor of Engineering, Chemical and Biomolecular Engineering, University of Notre Dame, “Hierarchically Functional Polymers for Advanced Membrane Separations”
- 2/4 Geyou Ao**, Assistant Professor, Chemical and Biomedical Engineering, Cleveland State University, “Bipolymer-Complexed Carbon Nanotubes: Synthesis, Optical Properties, and Applications”
- 2/11 Manu Platt**, Associate Professor, Wallace H. Coulter Department of Biomedical Engineering, Georgia Tech, “Things Fall Apart: Proteolytic Networks in Tissue Destructive Diseases”
- 2/18 Sapna Sarupria**, Associate Professor, Department of Chemical and Biomolecular Engineering, Clemson University, “Molecular Engineering of Ice Responsive Materials: Decoding Heterogeneous Ice Nucleation”
- 2/25 Kathleen Stebe**, Richer & Elizabeth Goodwin Professor, Chemical and Biomolecular Engineering, University of Pennsylvania, “Colloids in Confined Liquid Crystals”
- 3/11 Chris Boyce**, Assistant Professor, Chemical Engineering, Columbia University, Characterizing and Structuring Multiphase Granular Flows”
- 4/6 Judit E. Puskas**, Distinguished Professor of CFAES in Polymer Science, The Ohio State University, “Rubber City Girl – the Path to the 2017 Goodyear Gold Medal”
- 4/8 Mesfin Tsige**, Professor, Department of Polymer Science, University of Akron, “Probing the Diffusion, Adhesion and Migration of Polymers at Interfaces”
- 4/15 Laura Ensign-Hodges**, Marcella E. Woll Professorship in Ophthalmology, Ophthalmology, Nanomedicine Division; Chemical & Biomolecular Engineering, Vice Chair for Research, Wilmer Eye Institute, Johns Hopkins University, “Hypotonic Gelling Solutions for Extended Topical Ocular Drug Delivery”





## Autumn 2021

- 8/26 Xi Ling**, Assistant Professor, Chemistry, Boston University, “Making and Stitching 2D Materials for Electronic Devices”
- 9/9 Victor Zavala**, Baldwin-DaPra Professor, Chemical and Biological Engineering, University of Wisconsin-Madison, “Thinking About Data: Representations, Transformations, and Applications”
- 9/16 Hongfei Lin**, Associate Professor, The Gene and Linda Voiland School of Chemical Engineering and Bioengineering, Washington State University, “Design of Sequential Catalytic Solvolysis Process for Selectively Deconstructing Waste Plastics”
- 9/23 Joel Bombile**, Postdoctoral Scholar, Chemistry, University of Kentucky, “Multi-scale Modeling of Semiconducting Polymers for Organic Electronic Applications”
- 10/5 Shu Yang**, Professor and Department Chair, Materials Science and Engineering, Chemical and Biomolecular Engineering, University of Pennsylvania, “Programming Intelligence through Geometry, Topology, and Anisotropy”
- 10/21 Eranda Nikolla**, Professor, Chemical Engineering and Materials Science, Wayne State University, Embracing the Complexity of Heterogeneous Catalytic Structures: Nonstoichiometric Mixed Metal Oxides and 3-Dimensionally Engineered Metal Catalysts for Energy and Chemical Conversion”
- 10/28 Aniruddha Pandit**, Professor and Vice Chancellor, Chemical Engineering, Institute of Chemical Technology, Cavitationaly Induced Physico-Chemical and Biological Transformations”
- 11/2 Mandar Kathe**, Assistant Professor, Chemical Engineering, Tuskegee University, Democratization of Artificial Intelligence in Chemical applications (Theme 1); Towards creation of equitable pathways for STEM Graduate education: Systemic Challenges and learnings (Theme 2)
- 11/4 Anuj Chauhan**, Department Head and Professor, Chemical and Biological Engineering, Colorado School of Mines, Ophthalmic Drug Delivery By Contact Lenses”
- 11/30 Blaise Kimmel**, Postdoctoral Research Fellow, Department of Chemical and Biomolecular Engineering, Vanderbilt University, “Engineering Protein Scaffolds as Programmable Immunotherapies”
- 12/2 Eno Essien Ebong**, Associate Professor, Chemical Engineering, Bioengineering and Biology, Northeastern University, “Endothelial Mechanobiology Pathways and their Regulation by the Dynamic Glycocalyx.”



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