

The Humans of UD Chemical and Biomolecular Engineering

Below is a snapshot of several of the current graduate students working within each of faculty's laboratory. You are encouraged to reach out to any of the grad students listed if you have any questions about their lab!

New Professors!



Dr. Alexandra Bayles

Assistant Professor

JOINING AUGUST 2021

Key topics: soft materials, microfluidics, solute/ion transport, ionic liquids and ionogels
<http://cbe.udel.edu/people/faculty/>



Dr. Mark Blenner

Associate Professor

JOINING JANUARY 2021

Key topics: synthetic biology, metabolic engineering, protein engineering, genomics, systems biology
<http://cbe.udel.edu/people/faculty/mark-a-blenner/>



Dr. Kevin Solomon

Associate Professor

JOINING JANUARY 2021

Key topics: protein engineering, genomics and genetic engineering, synthetic biology
<http://cbe.udel.edu/people/faculty/kevin-v-solomon/>



Dr. Antony Beris

Arthur B. Metzner Professor

Key topics: transport phenomena, modeling & simulation, numerical methods

<http://cbe.udel.edu/people/faculty/beris/>



Grad Student	Email Address
Jeffrey Horner ^{[5]*}	jshorner@udel.edu
Soham Jariwala ^{[2]*}	sdj@udel.edu



Dr. Douglas Buttrey

Professor

Key topics: alternative energy, atomic-level catalysis & catalyst design, STEM education

Site: <http://cbe.udel.edu/people/faculty/dbuttrey/>

On multiple thesis committees

1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

*Currently co-advised

†Enrolled in different department

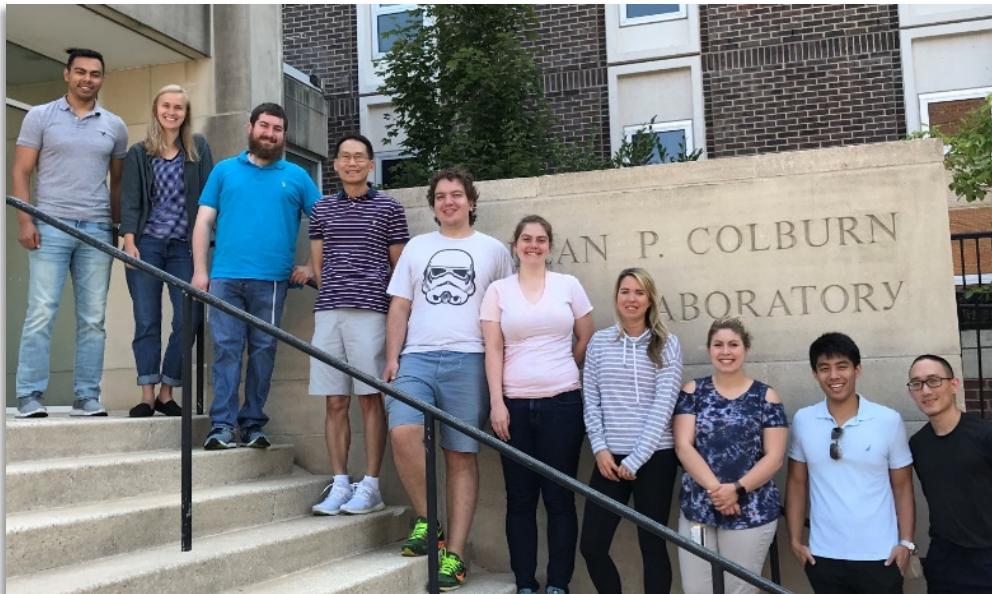


Dr. Wilfred Chen

Gore Professor of Chemical Engineering

Key topics: synthetic biology, protein engineering, gene & drug delivery, cancer therapy

Site: http://research.che.udel.edu/research_groups/wilfred/



Grad Student	Email Address
Emily Berckman ^{[5]†}	eberckma@udel.edu
Antonio Goncalves ^{[1]*}	agoncal@udel.edu
Emily Hartzell ^[5]	hartzell@udel.edu
Victoria Hunt ^{[5]*}	vhunt@udel.edu
Alexander Mitkas ^[5]	mitkas@udel.edu
Anxhela Sinani ^[1]	asinani@udel.edu
Hopen Yang ^[3]	hopen@udel.edu
Daniel Yur ^{[4]*}	dyur@udel.edu
Recent Grads	
Andrew Gaynor ^[5]	agaynor@udel.edu

1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

*Currently co-advised

†Enrolled in different department



Dr. Thomas Epps

Thomas and Kipp Gutshall Professor | Director of CRISP
Joint Professor of Material Science & Engineering

Key topics: novel polymeric materials, photovoltaics & energy storage, sustainable polymers

Site: <https://sites.udel.edu/eppsgroup/>

Grad Student	Email Address
Priyanka Ketkar ^[4]	ketkarp@udel.edu
Jignesh Mahajan ^{[2]*†}	jignesh@udel.edu
Maida Mahmood ^{[1]*†}	maida@udel.edu
Robert O'Dea ^[3]	odear@udel.edu
Greg Peterson ^{[5]†}	gregory.w.peterson.civ@mail.mil
Mruthula Rammohan ^{[1]*}	mruthula@udel.edu
Esther Roh ^[3]	estherhr@udel.edu
Sara Yang ^{[1]†}	sdyoung@udel.edu
Recent Grads	
Jordan Willie ^{[2]*}	jwillie@udel.edu





Dr. Catherine Fromen

Assistant Professor

Key topics: lungs & lung diseases, drug delivery to lungs, mucosal immunology and fluid dynamics

Site: <https://sites.udel.edu/cfromen/>



Grad Student	Email Address
Kartik Bomb ^{[2]*}	kbomb@udel.edu
Bader Jarai ^[3]	jarai@udel.edu
Emily Kolewe ^[3]	ekolewe@udel.edu
Zachary Stillman ^[3]	zstill@udel.edu
Ian Woodward ^[2]	irw@udel.edu



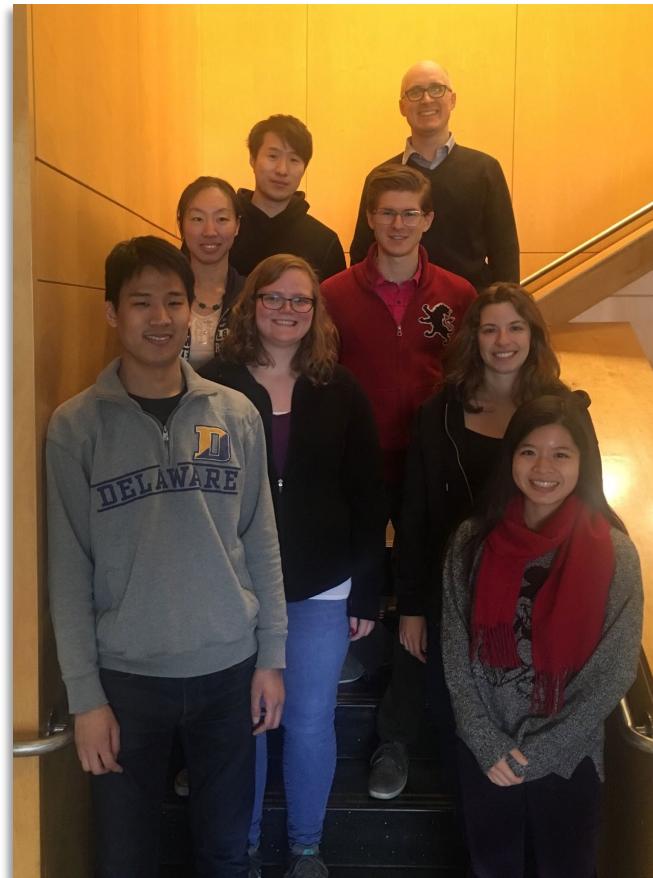
Dr. Eric Furst

Professor | Department Chair of Chemical & Biomolecular Engineering

Key topics: soft matter engineering, colloid science, rheology

Site: <http://www.che.udel.edu/people/furst/>

Grad Student	Email Address
Kimberly Dennis ^[5]	kadennis@udel.edu
Hojin Kim ^[5]	hjkim@udel.edu
Christine Mourafetis ^[2]	cmmcm@udel.edu
Caitlin Wood ^[5]	caitlinw@udel.edu
Recent Grads	
Tamás Prileszky ^{[PhD]*}	tprilesz@udel.edu



1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

*Currently co-advised

^[1]Enrolled in different department



Dr. Marianthi Ierapetritou

Bob and Jane Gore Centennial Chair of Chemical & Biomolecular Engineering

Key topics: systems engineering, modeling, process operations & optimization, systems biology

Site: <https://www.mierapetritou.com/>



Grad Student	Email Address
Michael Abramovitch ^[2]	amichael@udel.edu
Oluwadare Badejo ^[1]	badejo@udel.edu
Yingjie Chen ^[2]	cyj@udel.edu
Chaoying Ding ^[1]	cyding@udel.edu
Yuqing Luo ^[1]	yqluo@udel.edu
Huayu Tian ^[3]	hytian@udel.edu
Jayanth Venkatarama Reddy ^{[1]*}	jreddy@udel.edu

1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

Page | 7

*Currently co-advised

^[1]Enrolled in different department



Dr. Arthi Jayaraman

Professor

Joint Professor of Material Science & Engineering

Key topics: simulation and theory of macromolecular materials and functionalized polymers

Site: <http://udel.edu/~arthij/>

Grad Student	Email Address
Christian Heil ^[2]	heil@udel.edu
Jihyuk Kim ^{[1]*}	jihyuk@udel.edu
Arjita Kulshreshtha ^[3]	arji@udel.edu
Shizhao Lu ^[1]	shizhaol@udel.edu
Phillip Taylor ^{[3]*}	phillipt@udel.edu
Michiel Wessels ^[4]	michielg@udel.edu
Zijie Wu ^[1]	zijiewu@udel.edu



1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

*Currently co-advised

^[1]Enrolled in different department



Dr. Feng Jiao

Associate Professor | Robert Grasselli Development Professor of Chemical & Biomolecular Engineering

Key topics: electrochemistry, catalysis, batteries & solar fuel, nanoporous materials

Site: <https://www.jiaogroup.org/>



Grad Student	Email Address
Jacob Anibal ^{[4]‡}	anibalja@udel.edu
Kentaro Hansen ^[1]	khansen@udel.edu
Emily Jeng ^[4]	ecjeng@udel.edu
Matthew Jouny ^[5]	jounym@udel.edu
Byung Hee Brian Ko ^[3]	bhko@udel.edu
Arnav Malkani ^{[4]‡}	amalkani@udel.edu
Sean Overa ^[2]	sovera@udel.edu
Haeun Shin ^[2]	haeun@udel.edu
Zixing Ye ^[1]	zixingye@udel.edu



#Formally advised by Dr. Bingjun Xu
Dr. Xu is now at Peking University
(China)

1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

*Currently co-advised

†Enrolled in different department



Dr. April Kloxin

Associate Professor | Centennial Development Professor of Chemical & Biomolecular Engineering
Joint Professor of Material Science & Engineering

Key topics: responsive materials & biomaterials for tissue regeneration and disease mitigation

Site: <https://sites.udel.edu/akloxingroup/>



Grad Student	Email Address
Kartik Bomb ^{[2]*}	kbomb@udel.edu
Samantha Cassel ^[3]	secassel@udel.edu
Eden Ford ^[5]	edenford@udel.edu
DeVonte Moore ^{[2]†}	jayhawk@udel.edu
Phillip Taylor ^{[3]*}	phillipt@udel.edu
Kimberly Wodzanowski ^{[5]†}	kwodz@udel.edu
Recent Grads	
Amber Hilderbrand ^[PhD]	ahilder@udel.edu
Paige LeValley ^[PhD]	pleval@udel.edu
Bryan Sutherland ^[PhD]	bsuth@udel.edu
Katherine Wiley ^[PhD]	kwiley@udel.edu

1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

*Currently co-advised

†Enrolled in different department



Dr. Christopher Kloxin

Assistant Professor

Joint Professor of Material Science & Engineering

Key topics: Stimuli-responsive materials, self-assembly of biomolecules, 'click' chemistry, polymers and novel materials

Site: <https://sites.udel.edu/ckloxingroup/>

Grad Student	Email Address
Nicole Halaszynski ^{[4]†}	halaszyn@udel.edu
Mukund Kabra ^[3]	kabra@udel.edu
Joshua Meisenhelter ^[2]	joshmeis@udel.edu
Recent Grads	
Bryan Sutherland ^{[PhD]†}	bsuth@udel.edu





Dr. LaShanda Korley

*Distinguished Associate Professor of Material Science & Engineering
Joint Professor of Chemical & Biomolecular Engineering*

Key topics: bio-mimetic materials, mechanically-enhanced and multifunctional polymers

Site: <https://sites.udel.edu/korleygroup/>



Grad Student	Email Address
Daseul Jang ^{[3]†}	dsjang@udel.edu
Francis Klinewicz ^{[2]†}	francisk@udel.edu
Jignesh Mahajan ^{[2]*†}	jignesh@udel.edu
Maida Mahmood ^{[1]*†}	maida@udel.edu
Joanne Norris ^{[2]†}	jnorris@udel.edu
Jessica Thomas ^{[1]†}	jthomas@udel.edu
Chase Thompson ^{[5]†}	cbt@udel.edu
Akash Vaidya ^[2]	ajv@udel.edu
Kris Van de Voorde ^{[4]†}	kmv@udel.edu
Yu-Tai Wong ^[2]	ytwong@udel.edu

1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

Page | 13

*Currently co-advised

†Enrolled in different department



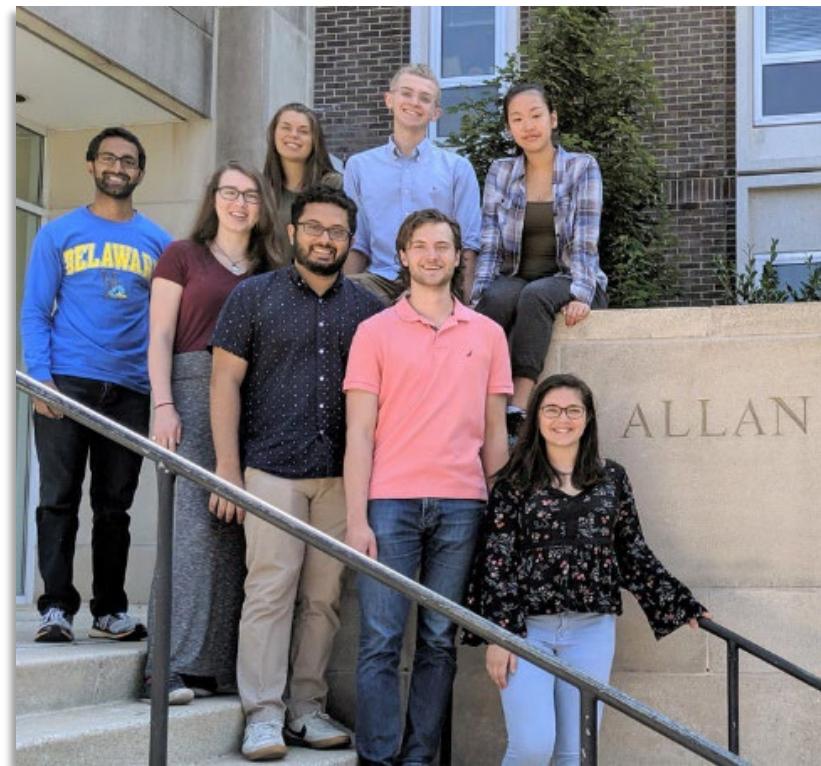
Dr. Aditya Kunjapur

Assistant Professor

Key topics: synthetic biology, non-standard amino acids, non-standard product generation via microbes

Site: <https://www.kunjapurlab.org/>

Grad Student	Email Address
Neil Butler ^[2]	ndb@udel.edu
Soumili Chattopadhyay ^[1]	soumili@udel.edu
Michaela Jones ^[2]	majones@udel.edu
Sabyasachi (Sunny) Sen ^[2]	sen@udel.edu
Morgan Sulzbach ^[2]	msulzbac@udel.edu



1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

*Currently co-advised

^[1]Enrolled in different department



Dr. Kelvin Lee

Gore Professor of Chemical & Biomolecular Engineering
Institute Director, National Institute for Innovation in Manufacturing Biopharmaceuticals (NIIMBL)

Key topics: NIIMBL, proteomics, biomanufacturing, biopharmaceuticals
Site: <https://leelab.org/>



1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

*Currently co-advised

†Enrolled in different department

Grad Student	Email Address
Erica Green ^[2]	eagreen@udel.edu
Patrick Bresnahan ^[1]	pmbres@udel.edu
Nathaniel Hamaker ^[4]	nhamaker@udel.edu
Victoria Hunt ^{[5]*}	vhunt@udel.edu
William (Bill) Hilliard ^[3]	wchillia@udel.edu
Douglas Nmagu ^[4]	nmagu@udel.edu
John Ruano-Salguero ^[5]	jruanos@udel.edu
Alana Szkodny ^[3]	aszkodny@udel.edu
Recent Grads	
Madolyn MacDonald ^{[PhD]†}	mmacd@udel.edu



The new Ammon Pinizzotto Biopharmaceutical Innovation Center ("AP Bio" -or- "BPI") houses NIIMBL (Lee, Roberts) and DBI (Papoutsakis) research groups Page | 15



Dr. Abraham Lennhoff

Allan P. Colburn Professor of Chemical Engineering

Key topics: protein biophysics, transport phenomena, interfacial science and separations

Site: http://www.che.udel.edu/research_groups/lennhoff/

Grad Student	Email Address
Matthew Becker ^[1]	beckerml@udel.edu
Soumitra Bhoyar ^[1]	soumi@udel.edu
Chase Herman ^[2]	cherman@udel.edu
Young Hoon Oh ^[3]	yhoh@udel.edu
Anvar Samadzoda ^[5]	anvars@udel.edu
Xutao (Steve) Shi ^{[1]*}	shixt@udel.edu
Brian Paul ^{[1]*}	bpaul@udel.edu
Recent Grads	
Ohnmar Khanal ^[5]	okhanal@udel.edu



1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

*Currently co-advised

^[1]Enrolled in different department

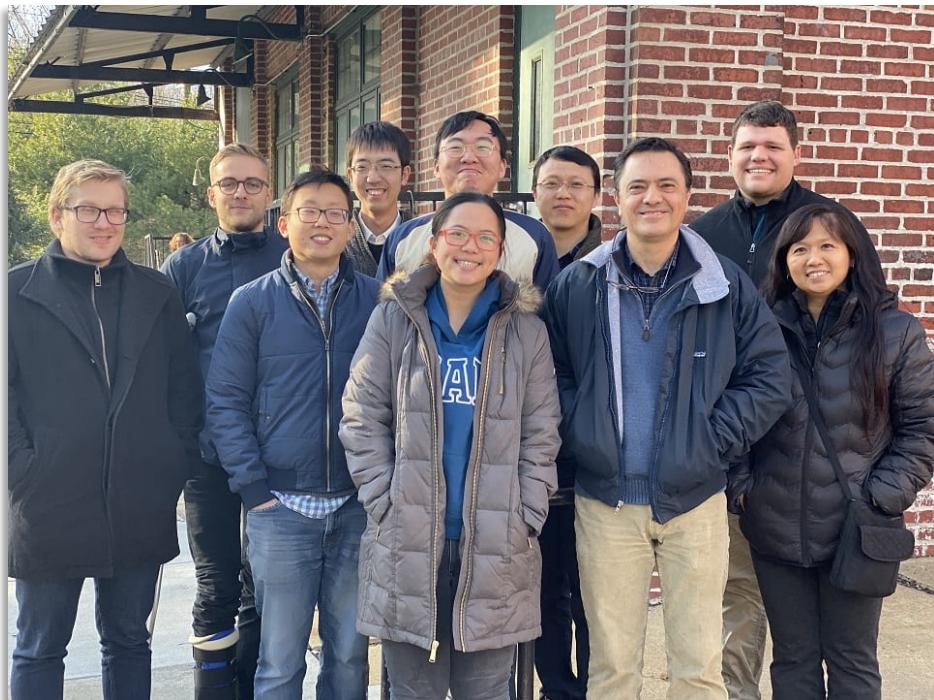


Dr. Raul Lobo

*Claire D. Leclaire Professor of Chemical Engineering | Director of CCST
Joint Professor of Material Science & Engineering*

Key topics: sustainable energy conversion, pollution abatement, catalyst design, zeolites

Site: http://www.che.udel.edu/research_groups/lobo/



1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

*Currently co-advised

†Enrolled in different department

Grad Student	Email Address
Doyoung Kim ^{[3]‡}	dykim@udel.edu
Mi-Jen Kuo ^[1]	mjkuo@udel.edu
Mark LaFollette ^[3]	marklaf@udel.edu
Jason Lee ^[3]	jasl@udel.edu
Muyuan Li ^[4]	muyuanl@udel.edu
Jian Pan ^{[x]‡}	jianpan@udel.edu
Mingchun Ye ^[2]	mcye@udel.edu
Yong Yuan ^{[x]‡}	yongyuan@udel.edu
Hsuan-Lan Wang ^[3]	swangche@udel.edu
Recent Grads	
Casper Brady ^{[PhD]‡}	cbrady@udel.edu



*‡Formally advised by Dr. Bingjun Xu
Dr. Xu is now at Peking University
(China)*



Dr. Michael Mackey

*Distinguished Professor of Material Science & Engineering
Joint Professor of Chemical & Biomolecular Engineering*

Key topics: material processing & characterization, fused filament fabrication, neutron scattering

Site: <http://cbe.udel.edu/people/faculty/mem/>



Grad Student	Email Address
Ahmad E.A.Y.A. Naqi ^[1]	naqi@udel.edu
Recent Grads	
David Phan ^[PhD]	dphan@udel.edu

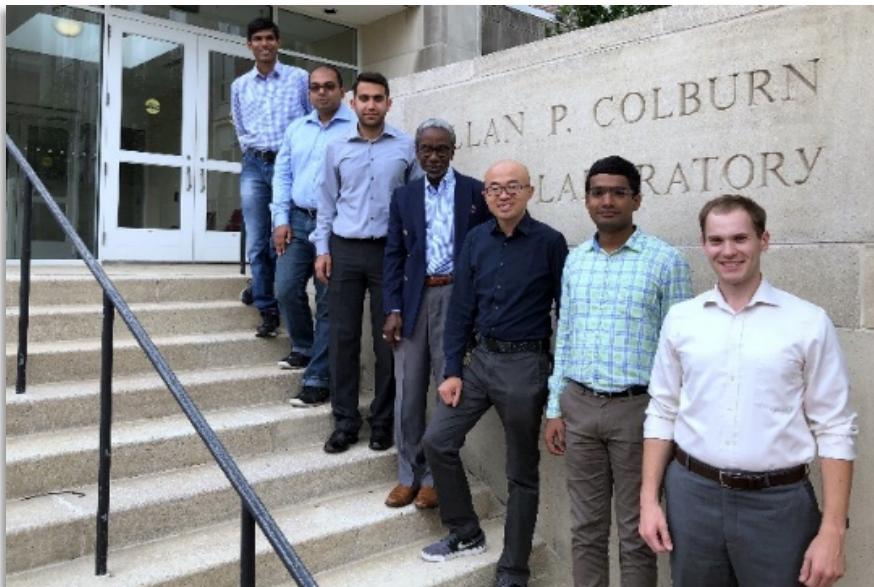


Dr. Babatunde Ogunnaike

*William L. Friend Chair of Chemical Engineering
Professor, Center for Systems Biology (DBI)*

Key topics: systems biology, process design & optimization, control & system theory

Site: <https://l16cn.github.io/bao-website/>



Grad Student	Email Address
Alexander Harding ^{[3]†}	ahrdng@udel.edu

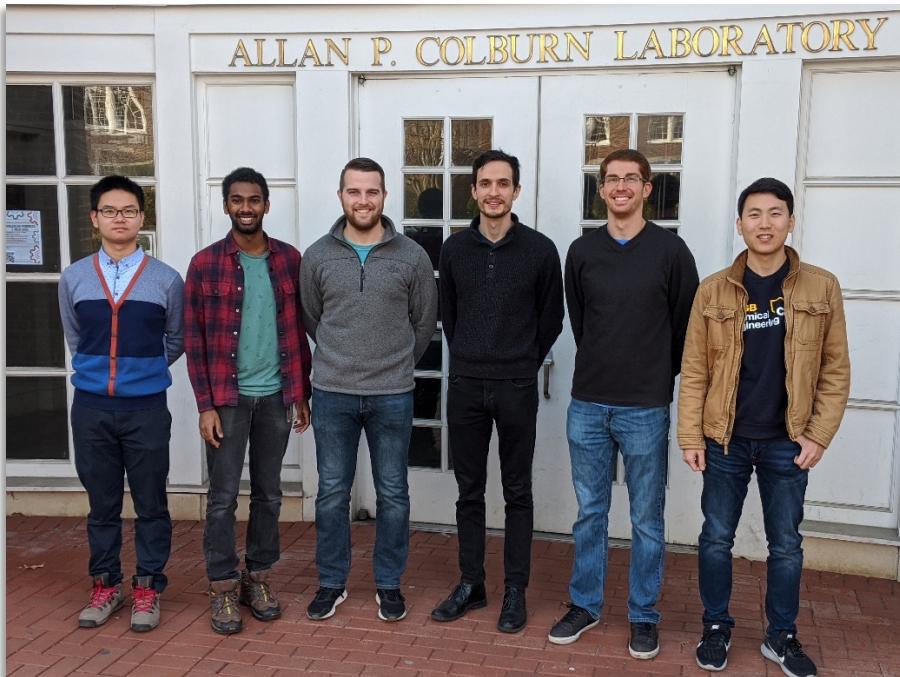


Dr. Marat Orazov

Assistant Professor

Key topics: multiphase systems, phase-specific catalysis, microporous material development

Site: <http://cbe.udel.edu/people/faculty/orazov/>



Grad Student	Email Address
Nikolas Angyal ^[1]	nangyal@udel.edu
Haoran Ding ^[1]	hding@udel.edu
Quentin Kim ^[1]	qkim@udel.edu
Eric Steinman ^[3]	steinman@udel.edu
Roshaan Surendhran ^[2]	rosshaans@udel.edu



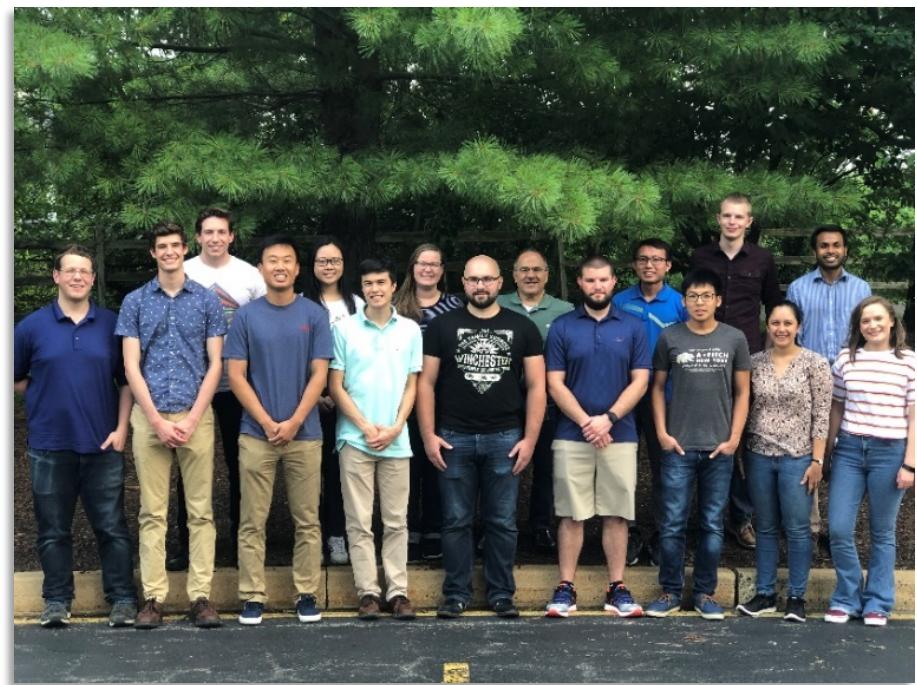
Dr. Eleftherios Terry Papoutsakis

Unidel Eugene du Pont Chair Professor of Chemical & Biomolecular Engineering | DBI Fellow
Joint Professor of Biology



Key topics: microbial syntropy, biofuel production, stem cell gene therapy, drug/cargo delivery, extracellular vesicles, biomanufacturing
Site: <http://papoutsakis.org/>

Grad Student	Email Address
Jie Ren (Gerald) Har ^[3]	harjrg@udel.edu
Michael Dahle ^[3]	mdahle@udel.edu
Jessica Belliveau ^[2]	jbellive@udel.edu
Kamil Charubin ^[5]	kamilcha@udel.edu
Samik Das ^[3]	samikdas@udel.edu
Hannah Streett ^{[4]†}	strehan@udel.edu
Jonathan Otten ^[2]	jkotten@udel.edu
Will Thompson ^[2]	wathomp@udel.edu
Noah Willis ^[1]	nbwillis@udel.edu
Jayanth Venkatarama Reddy ^{[1]*}	jreddy@udel.edu





Dr. Christopher Roberts

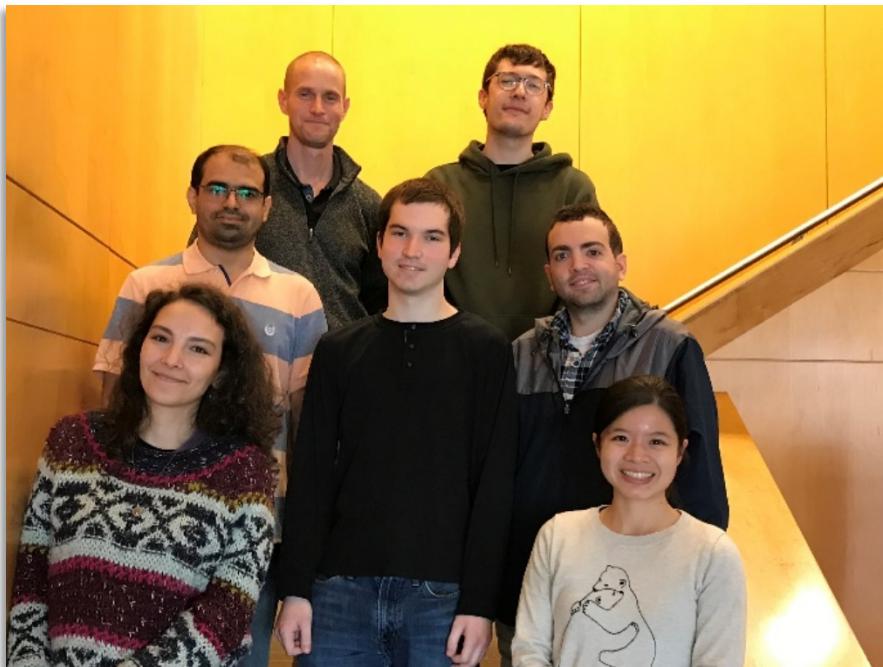
Professor | Associate Institute Director, NIIMBL | Director of CBST



The National Institute for
Innovation in Manufacturing
Biopharmaceuticals

Key topics: NIIMBL, small molecule biopharmaceuticals, protein stability & behavior, protein design and modeling

Site: <https://www.che.udel.edu/roberts-research-group/>



Grad Student	Email Address
Jordan Berger ^[3]	jberger@udel.edu
James Forder ^[2]	jforder@udel.edu
Gulsum Meric ^[5]	gmeric@udel.edu
Terrance Shoemaker ^[1]	shoemt@udel.edu
Caitlin Wood ^{[5]*}	caitlinw@udel.edu

1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

*Currently co-advised

^[1]Enrolled in different department

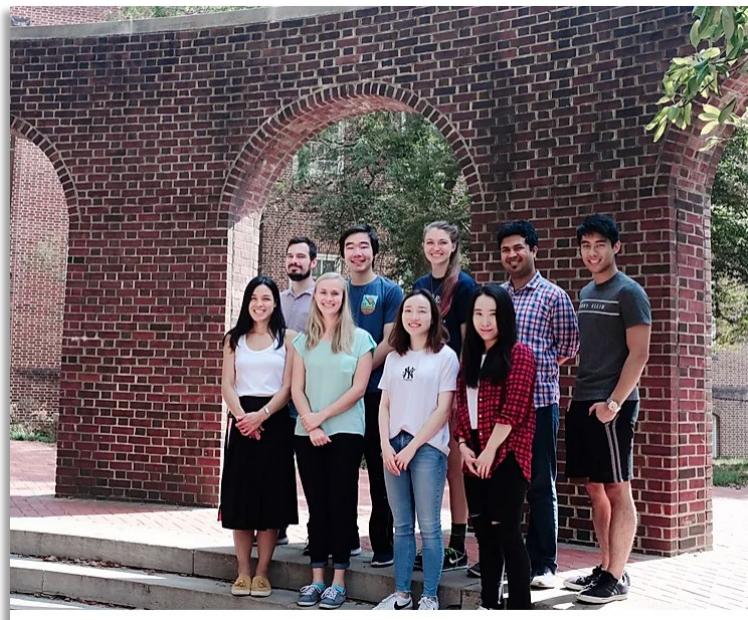


Dr. Millicent Sullivan

Professor | Associate Department Chair of Chemical & Biomolecular Engineering

Key topics: novel material design for gene & drug delivery, biomaterials, tissue engineering

Site: <https://www.sullivan.che.udel.edu/>



Grad Student	Email Address
Lucas Dunshee ^{[5]*}	ldunshee@udel.edu
Antonio Goncalves ^{[1]*}	agoncal@udel.edu
Rachel Lieser ^{[5]*}	rmlieser@udel.edu
Mruthula Rammohan ^{[1]*}	mruthula@udel.edu
Esther Roh ^{[3]*}	estherhr@udel.edu
Katherine Nelson ^{[3]*}	kmnelson@udel.edu
Daniel Yur ^{[4]*}	dyur@udel.edu

1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

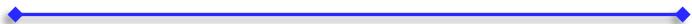
*Currently co-advised

[†]Enrolled in different department



Dr. Dionisios Vlachos

Allan & Myra Ferguson Chair of Chemical Engineering | Director of CCEI | Director of DEI



Key topics: RAPID, biomass conversion, catalytic chemistry, microchemical energy generation

Site: <https://dion.che.udel.edu/>



Grad Student	Email Address	Grad Student	Email Address	Grad Student	Email Address
Montgomery Baker-Fales ^[2] Sai Praneet Batchu ^[3]	mfales@udel.edu spbatchu@udel.edu	Sophia Kurdziel ^[2] Joshua Lansford ^[5]	skurd@udel.edu lansford@udel.edu	Gerhard Wittreich ^[4] Yurong Wu ^[1]	wittregr@udel.edu yrwu@udel.edu
Himaghna Bhattacharjee ^[3] Tai-Ying Chen ^[3]	himaghna@udel.edu tychen@udel.edu	Garam Lee ^[x] Seungyeon (Lina) Lee ^[1]	glee@udel.edu linalee@udel.edu	Piaoping Yang ^[1] Kewei Yu ^[1]	yangpp@udel.edu ykw@udel.edu
Tso-Hsuan Chen ^[2] Maximilian Cohen ^[3]	eddyeddy@udel.edu maxrc@udel.edu	Vinson Liao ^[1] Angela Norton ^[5]	liaov@udel.edu amn@udel.edu	Jiahua Zhou ^[1] Xue Zong ^[2]	jzhou@udel.edu xzong@udel.edu
Pierre Desir ^[5] Elvis Ebikade ^[4]	pdesir@udel.edu eebikade@udel.edu	Natalia Rodriguez Quiroz ^[4] Esun Selvam ^[1]	nataqr@udel.edu esuns@udel.edu	Zhaoxing Wang ^[3] Jon Wilson ^{[3]*}	zxw@udel.edu jonwils@udel.edu
Jiayi Fu ^[x] Yagya Gupta ^[1]	jiayi@udel.edu yagya@udel.edu	Sanjana Srinivas ^[1] Brandon Vance ^[1]	sanjana@udel.edu bcvance@udel.edu	Recent Grads	
Yung Wei (Jessie) Hsiao ^[2]	ywhsiao@udel.edu	Yifan Wang ^[4]	wangyf@udel.edu	Jonathan Lym ^[PhD]	jlym@udel.edu

1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

*Currently co-advised

^[x]Enrolled in different department



Dr. Norman Wagner

Unidel Robert L. Pigford Chair in Chemical & Biomolecular Engineering

Joint Professor, Dept of Physics & Astronomy | Professor, Biomechanics & Movement Science (BIOMS)

Key topics: colloid & polymer science, rheology, neutron scattering, thixotropy, biomaterials

Site: <http://sites.udel.edu/wagnergroup>



Grad Student	Email Address
Roisin Donnelly ^{[1]†}	roisind@udel.edu
Jeffrey Horner ^{[5]*}	jshorner@udel.edu
Jihyuk Kim ^[1]	jihyuk@udel.edu
Soham Jariwala ^{[2]*}	sdj@udel.edu
Haesoo Lee ^[2]	leeh@udel.edu
Yu-Fan Lee ^[3]	yflee@udel.edu
Ying-heng (Summer) Tein ^[4]	ystein@udel.edu
Jennifer Mills ^[3]	jnm@udel.edu
Brian Paul ^{[1]*}	bpaul@udel.edu
Xutao (Steve) Shi ^{[1]*}	shixt@udel.edu
Recent Grads	
Julie Hipp ^[PhD]	jhipp@udel.edu
Jannatun Nayem ^[PhD]	jannat@udel.edu

1st Year^[1] | 2nd Year^[2] | 3rd Year^[3] | 4th Year^[4] | 5th Year/Senior Students^[5]

*Currently co-advised

†Enrolled in different department

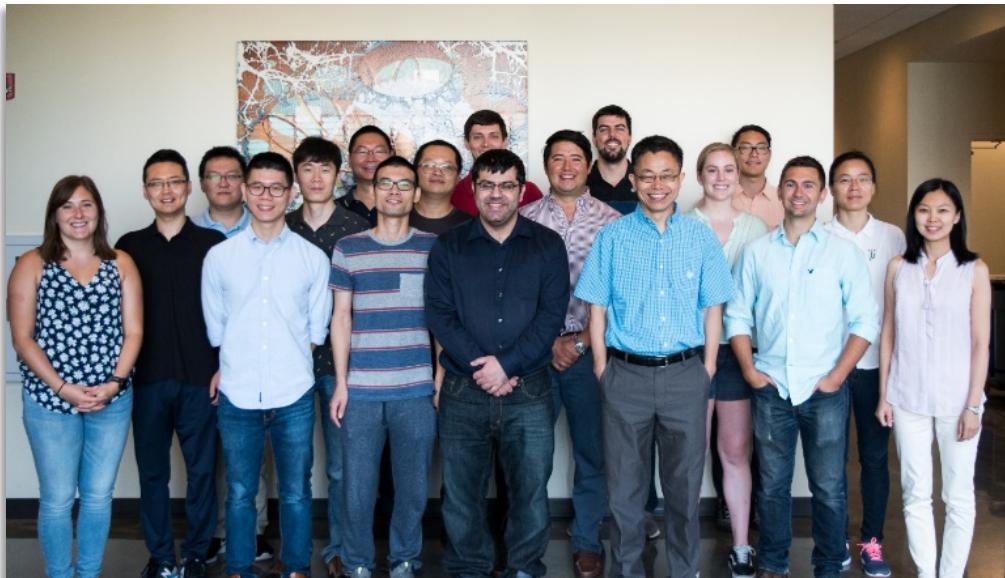


Dr. Yushan Yan

Henry B. Du Pont Chair of Chemical & Biomolecular Engineering

Key topics: electrochemistry, fuel cell optimization, electrolyzers, flow batteries, energy storage

Site: <http://yan.cbe.udel.edu/>



Grad Student	Email Address
Nicholas Oliveira ^{[2]*‡}	njo@udel.edu
Stephanie (Stevi) Matz ^[2]	smmatz@udel.edu
Alexandra Oliveira ^[1]	amolive@udel.edu
Lin Shi ^[3]	linshi@udel.edu
Catherine Weiss ^[2]	cmweiss@udel.edu
Jon Wilson ^{[3]*}	jonwils@udel.edu



#Formally co-advised by Dr. Bingjun Xu
Dr. Xu is now at Peking University
(China)