

The 9th Annual



Fall

Undergraduate

Research

Festival

Wednesday, November 14, 2018
4:30pm-6:30pm

University of Iowa
University Capitol Centre
2nd floor South Atrium
Iowa City, Iowa

**This event is hosted by the
Iowa Center for Research by
Undergraduates.**

**ICRU promotes undergraduate
involvement in research and creative
projects at the University of Iowa,
serving students, staff, and faculty.**

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The 2018 Fall Undergraduate Research Festival (FURF) is proud to showcase visual presentations focusing on the research and creative work performed by undergraduates at the University of Iowa. Presenters work in over **40 different departments** and major in over **35 different disciplines**, representing a broad range of sciences, arts, and humanities.

Odd numbered posters will present from 4:30-5:30PM
Even numbered posters will present from 5:30-6:30PM

****Please note that at 5:30, all of the boards will be turned around to show the even numbering and the second hour presenters' posters****

Many thanks to all of the people who make FURF a possibility - all undergraduates presenting their research and creative work, all poster judges, all mentors of undergraduate researchers, the Office of the Provost, the Office of the Vice President for Research and Economic Development, and the ICRU Research Ambassadors.

Programs with full abstracts are available on the ICRU website.

Upcoming ICRU Events and Opportunities

- Excellence in Undergraduate Research Award - February 8, 2019
- Distinguished Mentor Award - February 8, 2019
- ICRU Research Fellowship Applications Due:
 - *Summer - March 1, 2019
 - *Academic Year - March 29, 2019
- Research in the Capitol - April 1, 2019
- Spring Undergraduate Research Festival (SURF) - April 17, 2019

4:30-5:30PM Presenters (odd numbers only)

1 - Benjamin Allington

Skeletal muscle-specific DRP1 deficiency is associated with attenuated high fat diet-induced weight and adiposity gain, improved glucose tolerance, augmented energy expenditure, and elevated expression of FGF21

Major: Biochemistry

Mentor: Marcelo Correia (Internal Medicine)

3 - Maeve Bittle

PCB Masses in Home PUF Samples inside and outside East Chicago Homes

Major: Environmental Engineering

Mentor: Rachel Marek (Civil and Environmental Engineering)

5 - Glorie Borsay

Understanding pathogen persistence in soil through a Terrarium Experiment

Major: Global Health Studies

Mentors: Brinda Shetty (Biology), Kelly Baker (Occupational and Environmental Health)

7 - Claire Carmichael

The Effects of Transverse Aortic Banding on Cardiac Hypertrophy

Major: Biology

Mentor: Jamie Soto (Internal Medicine)

9 - Kevin Chen

Reduced Renal Response to Vasopressin in preeclampsia

Major: Human Physiology

Mentor: Eric Devor (Obstetrics and Gynecology)

11 - Akanksha Chilukuri

Effects of Preeclampsia on Neurodevelopment of Offspring

Majors: Neuroscience, Biochemistry

Mentor: Hanna Stevens (Psychiatry)

13 - Greg Collins

Inducible Deletion of OPA1 in the Heart Induces ER stress that Precedes Mitochondrial and Contractile Dysfunction

Major: Human Physiology

Mentors: E. Dale Abel (Internal Medicine), Helena Kenny (Internal Medicine)

15 - Brandon Cooley

Treatment of Preeclampsia: The Role of Aspirin in Gene Expression

Major: Biology

Mentors: Donna Santillan (Obstetrics and Gynecology), Eric Devor (Obstetrics and Gynecology)

17 - Jacquelyn Danover

Information Overload in Annual 10k Financial Reporting: FASB Disclosure Framework and Its Effect on 10k Length and Investor Perceptions

Major: Accounting

Mentor: Samuel Melessa (Accounting)

19 - Lauren Davis

Effects of High Blood Pressure Related to Pregnancy on Vasopressin Receptor Expression

Major: Human Physiology

Mentor: Donna Santillan (Obstetrics and Gynecology)

21 - Jonathan Dolde

Making Sense of System Logs: Implementing centralized system log storing, indexing, querying, and visualizing software on a heterogeneous network

Majors: Physics, Applied Physics, Computer Science

23 - Julianna Feracota

ASC 606: Impacts on Revenue Disclosure

Majors: Accounting, Dance

Mentor: Cristi Gleason (Accounting)

25 - Yuwei Guo

Activation of endogenous BMP2 in human cell by CRISPR-Cas9 SAM based synthetic transcription factor technology

Major: Biochemistry

Mentor: Huojun Cao (Endodontics)

27 - Morgan Hardiman

Analysis of NFL Viewership Ratings

Major: Business Analytics and Information Systems

Mentor: Jeffrey Ohlmann (Management Sciences)

29 - Cameron Hauser

The involvement of the locus coeruleus in waking up in response to CO₂

Major: Human Physiology

Mentor: Gordon Buchanan (Neurology)

31 - Elise Heitmann

Getting Nauti: The Necessity of Textual Evidence in Caribbean Underwater Archaeology

Major: Anthropology

Mentor: James Enloe (Anthropology)

33 - Olivia Kane

Of Prophecy and Christianity: Thomas of Erildoune and the Intersection of Christianity and Magic in Medieval Scotland in Literature

Majors: History, English

Mentor: Michael Moore (History)

35 - Khaled Kayali

Effects of Cypermethrin and Stress on the Embryonic Brain

Major: Biomedical Engineering

Mentor: Hanna Stevens (Psychiatry)

37 - Cory Rude

Scintillator X

Majors: Physics, Astronomy

Mentors: Jane Nachtman (Physics and Astronomy), Yasar Onel (Physics and Astronomy)

39 - Yi Xuan Khoo

Virtual Showdown: An Accessible Virtual Reality Game with Scaffolds for Youth with Visual Impairments

Majors: Informatics, Psychology

Mentor: Kyle Rector (Computer Science)

41 - Lyndi Kiple

Museums Matter: A Descriptive & Comparative Analysis of Iowa's Museums

Major: Chemistry

Mentor: Heidi Lung (Anthropology)

43 - Allison Kusick

How Old is the Osborne Intrusion? Using the pXRF to Find Datable Minerals in the Osborne Core

Major: Geoscience

Mentor: David Peate (Earth and Environmental Sciences)

45 - Aishwarya Kothapalli

Long-Term Outcomes of Patients with Anomalous Head Position Due to Nystagmus and Strabismus treated with a Modified Anderson-Kestenbaum Procedure

Major: Human Physiology

Mentors: Alina Dumitrescu (Ophthalmology and Visual Sciences), Arlene Drack (Ophthalmology and Visual Sciences)

47 - Kathryn Kuennen

Archaeological Little Barley: A Carbonization Experiment

Majors: Anthropology, Ancient Civilizations

Mentor: James Enloe (Anthropology)

49 - Sarah Lauer

Honor and Shame in the Sagas of Icelanders: Women's Struggle for Influence during the Icelandic Commonwealth

Majors: History, Anthropology

Mentor: Michael Moore (History)

51 - Anqi Li, Qing Lian

Stock evaluation

Majors: Finance; Accounting, Business Analytics and Information Systems

Mentor: Tong Yao (Finance)

53 - Mary Li

Mutation in CTNNA2 gene Associated with Cleft Palate in Sub-Saharan African Populations

Major: Neuroscience

Mentor: Azeez Butali (Oral Pathology, Radiology, and Medicine)

55 - Tianyi Li

Identification and quantification of winter time pollution sources in Nepal

Major: Environmental Sciences

Mentor: Md. Robiul Isalm (Chemistry), Betsy Stone (Chemistry)

57 - Yitong Li

Accessible Tools for Students who are blind or low vision in Computer Science Learning

Major: Computer Science

Mentors: Brandon Myers (Computer Science), Kyle Rector (Computer Science)

59 - Joshua Larson

Sparking Passion for Plasma: Creating undergrad experiments to foster interest in plasma physics

Majors: Physics, Electrical Engineering

Mentors: David Miles (Physics and Astronomy), Bob Merlino (Physics and Astronomy)

61 - Dani Lipman

Characterizing the Structure of the Martian Bowshock

Majors: Physics, Astronomy

Mentor: Jasper Halekas (Physics and Astronomy)

63 - Brianna Lupo

Molecular mechanisms of gene regulation

Majors: Biology, Biochemistry

Mentor: Catherine Musselman (Biochemistry)

65 - Zachary Luppen

Integration, Testing and Automation for the Europa Clipper REASON Instrument at the NASA Jet Propulsion Laboratory

Majors: Astronomy, Physics

Mentor: Tushar Thrivikraman (NASA Jet Propulsion Lab)

67 - Jared McGinnis

Eliminating Oxygen Inhibition during Photopolymerization Reactions

Major: Chemical Engineering

Mentor: Julie Jessop (Chemical and Biochemical Engineering)

69 - Emily McLain

Taking Temperature: Looking at Student Experiences

Majors: Communication Studies; Criminology, Law, and Justice

Mentor: Wayne Jacobson (Office of Assessment)

71 - Camille Mumm

Investigating the regulation of human and zebrafish periderm enhancers

Majors: Biology, Informatics

Mentor: Robert Cornell (Anatomy and Cell Biology)

73 - Taryn O'Brien

Efficacy of antibody injections as a treatment for premature blindness

Major: Biology

75 - Jennifer Ong

Skin-resident dendritic cell populations are altered in Bullous pemphigoid, an autoimmune blistering disease

Major: Biology

Mentor: Kelly Messingham (Dermatology)

77 - Pooja Patel

OPA1 Deficiency in BAT Results in Increased Cold Tolerance, Despite Impaired Mitochondrial Function in Female Mice

Major: Biomedical Sciences

Mentor: Renata Pereira (Internal Medicine)

79 - Allison Peroutka

Phosphonic Acid Functionalized Electrospun Nanofibers for Uranium (VI) Uptake

Major: Chemical Engineering

Mentors: Tori Forbes (Chemistry), Dave Cwierty (Civil and Environmental Engineering)

81 - Megan Powers

Factors impacting Lucinid bivalve and seagrass symbioses within the Sanibel-Captiva area, SW Florida

Majors: Environmental Science, Biology

Mentor: Bradley Cramer (Earth and Environmental Sciences)

83 - Guowei Qi

Automating Protein Structural Refinement

Majors: Biochemistry, Mathematics, Computer Science

Mentor: Michael Schnieders (Biochemistry)

85 - Emily Silich

HaloSat: a CubeSat Mission in Search of Missing Baryons

Majors: Astronomy, Physics, Mathematics

Mentor: Philip Kaaret (Physics & Astronomy)

87 - Nicholas Stange

An Analysis of Iowa Off-Highway Vehicle Roadway County Ordinances

Major: Biomedical Sciences

Mentors: Gerene Denning (Emergency Medicine), Charles Jennissen (Emergency Medicine)

89 - Jordyn Steinkritz

The Current Retirement Status & Cost Analysis

Major: Finance

Mentor: Cathy Zaharis (Finance)

91 - Gustave Stewart

Inequality, Urban Goods, and Participatory Budgeting within Brazil

Majors: Political Science, Economics

Mentor: Elise Pizzi (Political Science)

93 - Hanxi Tang

Gut microbiota composition is significantly affected by a seizure-causing mutation in fruit flies

Major: Biology

Mentors: Toshihiro Kitamoto (Anesthesia), Patrick Lansdon (Anesthesia)

95 - Emma Thayer

255 nm light emitting diode (LED) in combination with Bleach (NaClO) is more effective in killing E. faecalis in root canal therapies

Major: Human Physiology

Mentor: Kim Brogden (Iowa Institute for Oral Health Research)

97 - Jamie Tigges

Mesopredator influence on Passeriformes

Major: Environmental Science

Mentor: Heather Sander (Geographic and Sustainability Sciences)

99 - Nitya Virippil

The benefits of sublethal radiation in parasitically infected mice

Major: Human Physiology

Mentors: Prajwal Gurung (Internal Medicine), Matthew Yorek (Internal Medicine)

101 - Olivia von Gries

Analyzing Geometrical Composition Strategies in Renaissance Painting

Majors: Art History, Studio Art

Mentor: Robert Bork (Art History)

103 - Kathleen Wade

Analyzing Wind and Particulate Matter Around Lake Michigan

Major: Chemical Engineering

Mentor: Charles Stanier (Chemical Engineering)

105 - Lexy Wadsworth

Identifying Gene Targets to Combat Resistance in Melanoma Treatment

Major: Human Physiology

Mentor: Adam Dupuy (Anatomy and Cell Biology)

107 - Rion Wendland

Tagging of Batten Disease Protein for Observation

Major: Biomedical Engineering

Mentors: Luke Wiley (Ophthalmology and Visual Sciences), Kristan Worthington (Biomedical Engineering)

109 - Michael Westphal

OPA1 Deficiency in Brown Adipose Tissue Prevents Diet-Induced Obesity and Insulin Resistance in Mice

Majors: Human Physiology

Mentors: Renata Pereira (Internal Medicine), E. Dale Abel (Internal Medicine)

111 - Cheng Zha

Real-time Air Pollution Alerting System

Major: Biomedical Engineering

Mentor: Sarah Vigmostad (Biomedical Engineering)

113 - Lexi Zocher

An examination of brain regions activated in CO₂-induced arousal from sleep

Major: Human Physiology

Mentor: Gordon Buchanan (Neurology)

5:30-6:30 Presenters (even numbers only)

2 - Brittany Allendorf

Evaluation of keratinocyte cytokine production as a potential mechanism of autoimmunity in Bullous pemphigoid

Major: Human Physiology

Mentor: Kelly Messingham (Dermatology)

4 - Maya Altemeier

Characteristics of Staff-Resident mealtime verbal communication and relationship with intake in Nursing Home Residents with Dementia

Majors: Public Health, Biochemistry

Mentors: Wen Liu (College of Nursing), Ryan Carnahan (College of Public Health)

6 - Isabella Penniston

Examining Depression and Anxiety in Rural Advanced Cancer Patients Receiving the OASIS Intervention

Major: Nursing

Mentor: Stephanie Gilbertson-White (Nursing)

8 - Joseph Burba

Clinically Isolated Calmodulin Mutations and their Effects on Calcium-Dependent Ligand Binding

Major: Biochemistry

Mentor: Madeline Shea (Biochemistry)

10 - Aimee Butler

Disulfiram and copper with standard of care therapies increases small cell lung cancer toxicity

Major: Microbiology

Mentors: Douglas Spitz (Free Radical and Radiation Biology), Melissa Fath (Free Radical and Radiation Biology)

12 - Claire Carlson

Testing aquaculture techniques on the growth rates of macroalgae in Tarpon Bay, SW Florida

Majors: Environmental Science (Hydroscience), Geoscience

14 - Grace Coen

Stress Induced Translocation of Cyclin C Regulates Cardiac Mitochondrial Dynamics

Major: Biochemistry

Mentor: Chad Grueter (Internal Medicine), Jessica Ponce (Internal Medicine)

16 - Mackenzie Conlon

Assessing the role of ASIC1A in cocaine self-administration in mice

Major: Biomedical Sciences

Mentor: John Wemmie (Psychiatry)

18 - Jesse Cochran

To go Keto, or not to go Keto: That is the question

Major: Chemistry, Biology, Biochemistry

Mentor: E. Dale Abel (Internal Medicine)

20 - Zachary Dierks, Kierra Pauly

A Chip Off the Old Rock: The Identification of Raw Materials of Lithic Debris and Artifacts at Woodpecker Cave

Majors: Anthropology, History; Anthropology

Mentor: James Enloe (Anthropology)

22 - Alayna Dieter

Congenital skeletal muscle-specific DRP1 deficiency attenuates weight gain during high fat diet but does not alter glucose intolerance, energy expenditure or permeabilized skeletal muscle fiber respiration in female mice

Major: Biochemistry

Mentor: Marcelo Correia (Internal Medicine)

24 - Ethan Everhart

Comstock, Comedy and Conservatism

Major: History

Mentor: Alyssa Park (History)

26 - Gwyneth Forsythe

Girl Guides: Claiming a Place in the Public Sphere

Majors: Theatre Arts, History

Mentors: Jeffrey Cox (History), Lisa Schlesinger (Theatre Arts)

28 - Jeremy Friedman

The Impact of Internal and External Factors on Logical Decision-Making

Major: Finance

Mentor: Thomas Rietz (Finance)

30 - Christina Grimes

Changes in neuronal firing in the infralimbic cortex throughout cocaine self-administration, extinction and reinstatement

Major: Psychology

Mentors: Ryan LaLumiere (Psychological & Brain Sciences), Victoria Muller Ewald (Psychological and Brain Sciences)

32 - Rebecca Hauser

Auditory Evoked Potentials in Hybrid Cochlear Implant Listeners

Major: Speech and Hearing Science

Mentor: Inyong Choi (Communication Sciences and Disorders)

34 - Nicole Hehr

Activation of Retinal Glial Cells after Traumatic Brain Injury

Major: Ancient Civilizations

Mentor: Alexander Bassuk (Pediatrics, Neurology)

36 - Rana Hwezi

Resistance to Diet-Induced Obesity in Mice Lacking OPA1 in FatTissue Occurs Independently of Fat-Derived FGF21

Major: Philosophy

Mentor: Renata Pereira (Internal Medicine)

38 - Hannah Hildahl

Antibody producing plasma cells are present in lesional skin of Bullous pemphigoid patients

Major: Human Physiology

Mentor: Kelly Messingham (Dermatology)

40 - Jianwei Hu

Finding of the 3-Hydroxypropionic acid(3-HP) binding site on MmsR Lys-R family transcriptional factor

Major: Biomedical Engineering

Mentor: Ernesto Fuentes (Biochemistry)

42 - Qiutong Jin

Terahertz Continuum Generation in the LCS Lattice

Major: Electrical Engineering

Mentor: David Andersen (Electrical and Computer Engineering)

44 - Abinav Jyotis

Pharmacological manipulation of the rat cerebellar cortex at crus I disrupts performance in an interval timing task

Major: Biochemistry

Mentor: Krystal Parker (Psychiatry)

46 - Vijay Kamalumpundi

Detergent based screening to discover components of the mitochondrial pyruvate carrier complex

Major: Human Physiology

48 - Mila Kaut

The African Methodist Episcopal Church and Black Print Culture in Iowa

Majors: History, Music, and Gender, Women's, and Sexuality Studies

Mentor: Leslie Schwalm (History)

50 - Leo Kazma

Insulin stimulation increases ER-Mito contacts

Major: Human Physiology

Mentors: E. Dale Abel (Internal Medicine), Antentor Hinton (Internal Medicine)

52 - Benjamin Kirk

OPA-1 deficiency promotes muscle atrophy through upregulating ER-Mito contacts and Autophagy

Major: Biomedical Sciences

Mentors: E. Dale Abel (Internal Medicine), Antentor Hinton (Internal Medicine)

54 - Samuel Kitzman

Understanding the role of Barrier to autointegration in a premature aging syndrome

Major: Biochemistry

Mentor: Pamela Geyer (Biochemistry)

56 - Jared Kowalski

Is the desire of taking a company public dying?

Major: Finance

Mentor: Jeffrey Hart (Finance)

58 - Ross Lanier

Characterizing a new factor of chemotherapeutic resistance in childhood leukemia

Major: Biochemistry

Mentor: Miles Pufall (Biochemistry)

60 - Adrian Les

Using Electrochemistry to Measure Polymer Compressibility

Major: Chemistry

Mentor: Johna Leddy (Chemistry)

62 - Emma Lewis

The Role of Steroidal Pathways in Placental Cell Migration

Majors: Human Physiology, Medical Anthropology

Mentors: Mark Santillan (Obstetrics and Gynecology), Sabrina Scroggins (Obstetrics and Gynecology)

64 - Dacia Lipkea

Population structuring and phylogenetic inference in a species of tropical fly using double digest RAD markers

Major: Biology

Mentors: Robin Bagley (Biology), Andrew Forbes (Biology)

66 - Ben Martin

Endothelial Glycocalyx Microvascular Function in Human Preeclampsia

Major: Health and Human Physiology

Mentor: Gary Pierce (Health and Human Physiology)

68 - Caroline Meek

Creating Global Writing Communities

Major: English and Creative Writing

Mentor: Cate Dicharry (International Writing Program)

70 - Megan Merfeld

The Role of the Prefrontal Cortex in Visual Categorization in Rats

Major: Psychology

Mentor: John Freeman (Psychological and Brain Sciences)

72 - Madison Merfeld

Evaluating the Role of ASIC1A in the Sedative Effects of Alcohol

Major: Biology

Mentors: John Wemmie (Psychiatry), Brian Dlouhy (Neurosurgery)

74 - Jeremiah Meyer, Justin Rowell

Depth From Above: A photographic analysis of occupation levels and artifact frequency at Woodpecker Cave

Majors: Medical Anthropology; Ancient Civilizations, Anthropology

Mentor: James Enloe, Anthropology

76 - Cameron Moeller

How it Went Down: Geospatial Analysis of Rockfall at Woodpecker Cave

Majors: History, International Relations

Mentor: James Enloe (Anthropology)

78 - Pooja Patel

Analysis of replication protein A (RPA) complex consisting of rpa-1, rpa-2, and rpa-4 subunits and its roles in meiosis and double-stranded break repair

Major: Biomedical Sciences

Mentor: Sarit Smolokove (Biology)

80 - Ashley Morris

Meteorites Versus Meteor-Wrongs

Major: Geoscience

Mentor: David Peate (Earth and Environmental Sciences)

82 - Marissa Mueller

Assessing Objective Estimates of Physical Activity using ActiGraph Accelerometers

Major: Biomedical Engineering

Mentors: Laura Frey-Law (Physical Therapy and Rehabilitation Science), Ruth Chimenti (Physical Therapy and Rehabilitation Science)

84 - Timothy Nguyen

Identification of novel tumor suppressors in estrogen receptor positive breast cancer by an in vitro/in vivo genome-wide CRISPR screen

Major: Biology

Mentor: Songhai Chen (Pharmacology)

86 - Mara O'Connor

The relationship between Autism-associated genetic mutations with behavioral performance and brain activity

Major: Human Physiology

Mentors: Hanna Stevens (Psychiatry), Jessica DeWitt (Psychiatry)

88 - Ryan Reis

266 Monoclonal Antibodies Screened For Blocking Activity of Breast Cancer, Melanoma and Glioblastoma Cell Tumor Formation in a 3D Model Reveals A Central Role for Cell Surface Molecule Integrin α -3 β -1

Major: Biomedical Sciences

Mentor: David Soll (Biology)

90 - Marissa Roseman

Do parasites help drive life history variation in natural populations?

Majors: Biology, Environmental Science

Mentor: Maurine Neiman (Biology)

92 - Mitchell Schaffer

Modeling Muscle Fatigue: Identifying Fatigue Behavior with Limited Data

Major: Biomedical Engineering

Mentor: Laura Frey-Law (Physical Therapy and Rehabilitation Science)

94 - Hayden Schultz

STEM Innovator™: Portfolio Assessment of Innovation, Invention & Entrepreneurial Skills and Mindsets

Major: Business Analytics, Finance

Mentor: Leslie Flynn (John Pappajohn Entrepreneurial Center)

96 - Nicholas Shaw

LINCing the nucleus and the cytoplasm in muscle

Majors: Biochemistry, Psychology

Mentor: Lori Wallrath (Biochemistry)

98 - Phoebe Snydersmith

Effect of Feedback on Women's Self-Esteem

Major: Psychology

Mentor: Teresa Treat (Psychological and Brain Sciences)

100 - Andrew Textor

Correcting for Electron Scattering in Thin Polymer Films to Improve Nano-scale Devices Fabricated Using Electron Beam Lithography

Major: Chemical Engineering

Mentor: Aju Jugessur

102 - Jacob Thompson

Microstructured, Photopolymerized Chitosan-PEG Hydrogels for Retinal Tissue Engineering

Major: Biomedical Engineering

Mentor: Kristan Worthington (Biomedical Engineering)

104 - Brandon Toth

The Role of Lateral Hypothalamic Leptin Receptor Signaling in Metabolic Regulation and Behavior

Majors: Neuroscience, Biochemistry

Mentor: Huxing Cui (Pharmacology)

106 - Michael Westphal

Deletion of Mitochondrial Protein Protects against Diet-Induced Obesity and Insulin Resistance

Major: Human Physiology

Mentor: Renata Pereira (Internal Medicine)

108 - Alexis Williams

Analysis of Pathologies in the UI-Stanford Osteological Collection

Majors: Biology, Anthropology

Mentor: Lara Noldner (Office of the State Archaeologist)

110 - Mikayla Wymore

Tuning Chemical Properties and Applications of Metal Complexes by Modifying Ligands

Majors: Chemistry, Biochemistry

Mentor: Scott Daly (Chemistry)

112 - Alexandria Yakes

Is White Collar Crime White? Racialization of Offenders in Print Media

Major: Ethics and Public Policy

Mentor: Marina Zaloznaya (Sociology)

114 - Lucee Laursen

Ethics in the Government's Taking of Private Land

Major: Ethics and Public Policy

Mentor: Takis Poulakos (Rhetoric)



