

# UNIVERSITY OF GEORGIA

# **Interdisciplinary Toxicology Program** Fall 2019 Newsletter





#### The Interdisciplinary Toxicology Program

College of Pharmacy South 240 W. Green St – Rm. 336 Athens, GA 30602

www.toxicology.uga.edu 706-583-0058

John Wagner, Interim Director Nick Filipov, Graduate Coordinator Wanda Darden, Administrative Specialist II

#### **Executive Committee Members:**

Steve Stice, College of Agricultural and Environmental Sciences Robert Bringolf, Warnell School of Forestry and Natural Resources Cathy White, College of Pharmacy Jia-Sheng Wang, College of Public Health Ron Riley, Ret., USDA Tai Guo, College of Veterinary Medicine

#### **Curriculum Committee:**

Nick Filipov, College of Veterinary Medicine
Jason Zastre, College of Pharmacy
Robert Bringolf, Warnell School of Forestry and Natural Resources
Xiaoqin Ye, College of Veterinary Medicine
Anne Summers, Franklin College of Arts and Sciences
Stacey Lance, Savannah River Ecology Lab

#### **Admissions Committee:**

CHAIR Nick Filipov, College of Veterinary Medicine Robert Gogal, College of Veterinary Medicine John Yu, College of Public Health

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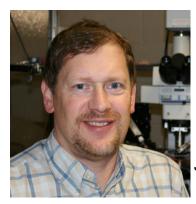
Greetings fellow ITP colleagues,

Time has passed quickly since our last issue of the Interdisciplinary Toxicology Program newsletter was disseminated in the Summer of 2018! As with any active, multifaceted program, there are a number of events, accomplishments and changes that have occurred over the past 18 months so please take a moment and look through this issue of our newsletter. Our Welcome Back retreat events in the Fall held at Flinchum's Phoenix have been a pleasant way to reconnect ITP students & faculty, welcome new program participants, and enjoy some good food! The 2019 ITP Spring Retreat included keynote speakers Dr. Chris Vulpe from the University of Florida and our own Dr. Marsha Black from University of Georgia. Dr. Black has recently retired from the Department of Environmental Health Sciences and we certainly thank her for her many contributions to the ITP and wish her well in the years to come!

ITP faculty and students have represented UGA at several regional and national toxicology meetings over the past year. These have included regional Southeastern Society of Toxicology meetings held at the University of Florida in Gainesville and the University of South Florida in Tampa, the Annual Meeting of the Society of Toxicology in Baltimore, and the American Society of Pharmacological and Experimental Therapeutics in San Diego (Experimental Biology meetings). Much of this productivity is due to the strong efforts of our student members; please continue to encourage them as they progress through their academic careers here at UGA!

There have been a number of changes to the ITP administrative team that have occurred over the past year, beginning with the departure of our Administrative Specialist II, Ms. Joanne Mauro. Ms. Wanda Darden has taken her place in this role. Former ITP Director Dr. Brian S. Cummings is now Department Head of Pharmaceutical & Biomedical Sciences in the College of Pharmacy. Dr. John J. Wagner (Physiology & Pharmacology) is currently serving as the Interim Director of ITP. Dr. Nick M. Filipov (Physiology & Pharmacology) is the new ITP Graduate Coordinator and Dr. Tai Guo (Veterinary Biosciences & Diagnostic Imaging) has joined the Executive Committee as the faculty representative for the College of Veterinary Medicine. We have also welcomed two new faculty members to the ITP, Dr. Paul Eubig (Physiology & Pharmacology) and Dr. Xiaoyu Xu (Savannah River Ecology Lab).

During this time of change in the administrative leadership of the ITP, I want to acknowledge the support of the Graduate School Staff Members and the many individuals within the ITP membership (students & faculty) that participate and support the program in so many ways. Without your active participation, the ITP cannot effectively continue in its efforts to promote training and research in the discipline of toxicology here at the University of Georgia-Thanks to you All!



John J. Wagner

John J. Wagner, Interim Director of ITP

# **Graduate Coordinator Notes**

The following is a brief summary of the ITP for 2018-2019 academic year:

#### Ph.D. degrees (5) earned this past year:

Joella Xu (Tai Guo) Veterinary Biosciences & Diagnostic Imaging

Jun Zhou (Jia-Sheng Wang) Environmental Health Science

Hunter Connell (Dr. Jason Zastre) Pharmaceutical and Biomedical Sciences

Matthew Urich (Dr. Robert Bringolf) Warnell School of Forestry and Natural Resources

Yingjia Chen (Tai Guo) Veterinary Biosciences & Diagnostic Imaging

#### Masters degree (2)

Jarad Cochran (Dr. Travis Glenn) Environmental Health Science

Davis Reardon (Dr. Luke Naeher) Environmental Health Science

#### Advanced to Doctoral Candidacy (1) this year:

Katherine Kearns (Dr. Luke Naeher) Environmental Health Science

#### ITP accepted (2)new students for Fall 2019

Naomi Kramer (Dr. Cummings) Pharmaceutical and Biomedical Sciences PhD

Andrew McVay (Dr. Xiaoqin Ye) Physiology and Pharmacology) PhD



Dr. Nikolay Filipov

**Graduate Coordinator of Interdisciplinary Toxicology Program** 

#### **College of Agricultural and**

#### **Environmental Sciences**

Sayed Hassan, Crop & Soul Sciences Qingguo (Jack) Huang, Crop & Soil Sciences Steve Stice, Director, Regenerative Bioscience Center William Vencill, Crop & Soil Sciences Franklin West, Animal & Dairy Science

#### **College of Public Health**

Marsha Black, Environmental Health Science(Ret)
Chas Easley, Environmental Health Science
Travis Glenn, Environmental Health Science
Erin Lipp, Environmental Health Science
Luke Naeher, Environmental Health Science
Mary Alice Smith, Environmental Health Science (Ret)
Lili Tang, Environmental Health Science
Jia-Sheng Wang, Department Head, Environmental
Health Science

**Phillip Williams**, Dean Emeritus, College of Public Health

John Yu, Environmental Health Science

#### **College of Veterinary Medicine**

Julie Coffield, Physiology & Pharmacology Gaylen Edwards, Department Head, Physiology & Pharmacology

Paul Eubig, Physiology & Pharmacology Nikolay Filipov, Physiology & Pharmacology Robert Gogal, Veterinary Biosciences & Diagnostic Imaging

Tai Guo, Veterinary Biosciences & Diagnostic Imaging Steve Holladay, Department Head, Veterinary Biosciences & Diagnostic Imaging Elizabeth Howerth, Pathology S. Mark Tompkins, Infectious Diseases Ralph Tripp, Infectious Diseases Maria M. Viveiros, Physiology & Pharmacology John J. Wagner, Physiology & Pharmacology Xiaoqin Ye, Physiology & Pharmacology

#### **Franklin College of Arts and Sciences**

Anne O. Summers, Dept. Of Microbiology

#### **Odum School of Ecology**

**Stacey Lance**, Savannah River Ecology Lab **Ben Parrott**, Savannah River Ecology Lab

#### R.C. Wilson College of Pharmacy

Michael Bartlett, Pharmaceutical & Biomedical Sciences

James Bruckner, Pharmaceutical & Biomedical Sciences (Ret)

**Brian Cummings**, Pharmaceutical & Biomedical Sciences

Arthur Roberts, Pharmaceutical & Biomedical Sciences Randall L. Tackett, Clinical & Administrative Pharmacy Catherine White, Pharmaceutical and Biomedical Sciences

Jason Zastre, Pharmaceutical & Biomedical Sciences

#### **Warnell School of Forestry & Natural Resources**

**Robert Bringolf,** Warnell School of Forestry & Natural Resources

**Tracey Tuberville**, Savannah River Ecology Lab Xiaoyu Xu, Savannah River Ecology Lab

#### **Auburn University, AL**

**Robert Arnold**, Auburn Univ., Dept. of Drug Discovery and Development

#### **USDA**

**Ronald T. Riley**, Ret., Toxicology & Mycotoxin Research, Retired

**Kenneth A. Voss**, Toxicology & Mycotoxin Research, Retired

#### **Guest Lectures**

## **Spring Retreat Keynote Speakers**



"Genome Wide CRISPR approaches to identify cellular toxicity mechanisms" **Christopher Vulpe, Ph.D.,** Professor, Department of Physiological Sciences, University of Florida, Gainesville, FL





"The Accidental Ecotoxicologist" **Marsha Black**, **Ph.D.**, Associate Professor, Department of Environmental Health Sciences, University of Georgia, Athens, GA







Christian Andersen



Lillie Marie Barnett



Kyle Brown



Yingjia Chen



Jarad Cochran



**David Haskins** 



Katherine Kearns



**Danielle Ludwig** 



Callie McDonough



Edith Marie McKenzie



**Gershon Akese Mensah** 



Ryan Mote



**Collin Preston** 



**Davis Reardon** 



**Jacob Siracusa** 



Soo Shin



Yaye Wang



Zidao Wang



Hannah Xu

# ITP 2019—2020 CLASS



# **NEW STUDENTS**



Naomi Kramer



**Andrew McVay** 

## **Student Awards and Recognitions**

#### **2019 Spring Workshop:**

**Platforms** 

David Haskins First Place Brown Watersnakes (Nerodia taxispilota) as bioindicators for

Mercury in the Savannah River. Advisor: Tracey Tuberville - Robert Bringolf

**Collin Preston** Second Place Cocaine exposure results in persisting impairment of hippocampal

Long-term potentiation and reduced performance in a spatial working memory task in C57BL/6J

mice. Advisor: John Wagner

**Posters** 

**Kyle Brown** First Place Septotemporal-specific Effects of a Gulf War Illness Sarin Surrogate,

Diisopropylfluorophosphate, on Synaptic Transmission in the Mouse Hippocampus. Advisor: John

Wagner

Zidao Wang Function of TRPML1 in mouse corpus luteum. Advisor: Xiaoqin Ye

**National Awards:** 

David Haskins 2018 Riverbanks Zoo and Garden's Satch Krantz Conversation Fund. Advisor: Tracey Tuberville –

**Robert Bringolf** 

**David Haskins** 2018 American society of Ichthyologist and Herpetologist: The Helen T. and Frederick M. Gaige

Award. Advisor: Tracey Tuberville - Robert Bringolf

Kyle Brown 2018 Riverbanks Zoo and Garden's Satch Krantz Conversation Fund. Advisor: John Wagner

**Katherine Kearns** 2019 Graduate School Travel Fund.

Lillie Barnett 2019 Graduate Student Education Advancement Award. Advisor: Brian Cummings

Christian Andersen 2018 ARCS Scholar. Advisor: Xiaoqin Ye

**Regional Awards:** 

**David Haskins** SEPARC Travel Grant: Awards to graduate students in the form of registration/travel waivers to

present at the annual SEPARC meeting. Advisor: Tracey Tuberville - Robert Bringolf

David Haskins 2018 Ernest E. Provost Wildlife Fellowship Award. Advisor: Tracey Tuberville—Robert Bringolf

Christian Andersen 2018 Third Place Platform presentation. Southeastern Toxicology. Advisor: Xiaoqin Ye

**Lillie Marie Barnett** 2018 Third place poster presentation. Southeastern Society of Toxicology.

Advisor: Brian Cummings

# **UGATOX Officers 2019-2020**



Pictured L to R:

Immediate past President—Ryan Mote

President—Christian Andersen

Vice president—Kyle Brown

Treasurer—Lillie Barnett

Secretary—Jacob Siracusa

Networking Chair—Katherine Kearns

Dear UGATOX family,

Welcome to the start of the 2019-2020 academic year, I hope everyone enjoyed the ITP Fall Retreat last month. The UGATOX board has been working to insure that we maintain the prestige of past boards by continuing to grow the UGATOX organization. We have continued the monthly journal club and have encouraged the new ITP students to participate in presenting original research papers. The board remains close with the Society of Toxicology's regional chapter, the Southeastern Society of Toxicology through board member Lillie Barnett who serves as the SESOT graduate representative. We are excited to announce that we will continue the Thanksgiving potluck tradition (w/ PBS graduate students), with a tentative date of November 21<sup>st</sup>, 2019. We will also be continuing to have social events (bowling night, hockey tailgate, Six Flags trip, etc.) and will keep UGATOX members informed of dates. While we strive to continue the amazing additions past boards have brought to UGATOX, we are also always seeking new ways to enhance the UGATOX experience. If you have any suggestions for opportunities that you believe would fit well with UGATOX, please feel free to reach out to any of the executive board. Recently, UGATOX was approached to write a letter of support for an R25 Undergraduate Training Grant submitted by ITP faculty. We hope to receive word on funding later this year and will update the UGATOX community. This would be an excellent opportunity for graduate students to help mentor undergraduate students interested in pursuing graduate degrees in the field of toxicology. The Graduate Student Association's Graduate Council recently requested representatives from programs and departments across campus. Due to short notice, I was submitted to serve as the ITP representative on the council for this academic year. However, we would like to open the position up to any UGATOX member to serve as the representative next year. Please contact either Wanda Darden or myself if you wish to serve as the representative. Lastly, we hope to work with past president Collin Preston, who currently serves on the Experiential Professional Development board, to facilitate bringing industry representatives to engage with UGATOX members. This would give UGATOX members a chance to speak with companies who employ toxicologists and help expose them to careers outside of academia. I would like to thank this year's UGATOX executive board, Vice-President: Kyle Brown, Secretary: Jacob Siracusa, Treasurer: Lillie Barnett, and Social Chair: Katie Kearns, for continuing to make UGATOX one of the best graduate student organizations on campus.

May all our grants be funded and experiments successful,

#### **Tox Alumni**

Olorunfemi Adetona Asst. Professor, EHS, Ohio State Univ., Columbus, OH

Anna Adetona Research Scientist, PH Research & Transitional Sci., Battelle, Columbus, OH

Augustine Agyekum Owner, ToxGlobal Diagnostics., Santa Monica, CA

Manoj Amaraneni Regulatory Affairs Officer at Galt Pharmaceuticals., Atlanta, GA

Amber Bacom Toxicologist, SRC Researchgate., Denver, CO

Elizabeth Barnwell Epidemiologist, CDC,. Atlanta, GA

Jason Boyd Toxicologist, NASA Div of Space Life Sciences, San Diego, CA

Windy Boyd Health Scientist, OHAT, National Toxicology Program, NIEHA, RTP., NC

HeatherBrantAssistant Professor, School of Natural Sciences and Mathematics, Claflin Univ., SCTantianaBurnsAssistant Professor, Environmental Science, Claflin University, Orangeburg, SC

Jerry Campbell Associate Director, Center for Human Health Assessment, The Hammer Institute, NC

Ilho Cho Ministry of Agriculture and Forestry, South Korea

Russell Cole Family Medicine Specialist at Tallahassee Memorial Health Care, Tallahassee, FL

Deanna Conners Science Writer and Editor, Eggertsville, NY
Amy Delinsky Senior Scientist, OpAns, LLC, Durham, NC

Gregory Dooley Assistant Professor, Environmental & Radiology Health Sciences, Colorado State University, CO

Shashank Dravid Associate Professor, Creighton University, Omaha, NE

Ahmed El Zowalaty RNA, Univ. of Massachusetts Medical School, Worchester, MA

Nikolay Filipov Professor, College of Vet. Med., Dept. of Phys/Pharm, Athens, GA

John Finger Lecturer, Dept. Of Biological Sciences, Auburn, AL

Kristi Folden Technical Sales Professional, Anton Paar USA, Athens, GA

Donna Glinski Analytical Chemist, ORISE, Athens, GA

Forrest Goodfellow Research Scientist, ArunA Biomedical, Athens, GA

Eric Goolsby Asst. Professor, Dept. of Biology, Univ. of Central Florida, Orlando, FL

Neera Gopee Vet. Medical Officer, OLAW, NIH, Bethesda, MD

Cory Gresham Veterinarian, VCA Falcon Village Animal Hospital, Suwanee, GA
Xianglu Han Regulatory Toxicologist, LANXESS Americas, Pittsburgh, PA

Curtis Harris Director, Associate Professor, Health Policy & Management, Institute for Disaster Management

Peter Hazelton Chief of Conservation Science, Natural Heritage & Endangered Species Program, West Boylston, MA

Quanren He Director, AuXi AppTec, Abgent Biotechnology Co., Ltd. Jiangsu Province, China

William Henderson Research Toxicologist, Ecosystems Research Division, S EPA, Athens, GA

Ofia Hodoh US EPA Region 4, Atlanta, GA

Ryan Holem Senior Professional, GEI Consultants, Okemos, MI
Joseph Iburg Technical Sales Specialist, ADAPCO, Bullhead City, AZ

Deborah Iwanowicz Research Fish Biologist, LSC Fish Health Laboratory, Kearneysville, WV

Arena Jackson Georgia State University

Victor Johnson Director of Operations, Bruleson Research Technologies, Inc. RTP, NC

Ghanashyam Joshi Faculty, Southern A&M, Baton Rouge, LA

Minsu Kang Medical Science Liaison, Avanir Pharmaceuticals, Chicago, II

Lakshmi Kelamangalath Study Director, Covance, Inc., Greenfield, IN

#### **Tox Alumni**

Kristen Kellock Toxicologist, Michigan Department of Environmental Quality, Lansing, MI

Kyu-Bong Kim Dankook University, South Korea

Jiyoung Kim Lecturer, Hamilton Lugar School of Global and International Studies, Bloomington, IN

John Kind Principle Toxicologist, CTEH, Little Rock, AR

Ramya Kolli Postdoctoral Fellow at NIEHS, Durham North Carolina

Brad Konwick Environmental Protection Division, Atlanta, GA Sookwang Lee Food and Drug Administration, Johns Creek, GA

Karen Lehocky Laboratory Supervisor, Middle Tennessee State University, Smyrna Tennessee

Rong Li NIEHS, NC

Shangtao Liang Environmental Scientists, AECOM, Atlanta, GA

Zhoumeng Lin Asst. Professor of Pharm. and Toxi., Kansas State Univ., Manhattan, KS

Liyun Liu Research Professional IV, University of Georgia, Athens, GA

Division of Epidemiology, Human Genetics & Environmental Sciences, Univ., Texas Health Center,

Suyang Liu TX

Michael Lumpkin Sr. Toxicologist, CTEH, Little Rock, AR

Hongbo Ma Associate Professor, Environmental Health Sciences, Univ. of Wisconsin

Audrey Majeske University of Puerto Rico

Carrie Marr Wildlife Biologist, US Fish and Wildlife Service, Phoenix, AZ

Sheppard Martin Toxicologist, Proctor & Gamble., Cincinnati, OH Judy Mathew Founder, Pattassery Consulting, LLC, Atlanta, GA

Eva McLanahan Toxicologist, Technical Project Officer, CDC/ATSDR, Atlanta, GA

Brooks Mcphail Forensic Toxicologist, North Carolina State Crime Lab, Raleigh, NC

Emily McReynolds Tutor, Cherney Microbiological Services & Upward Bound, Clovis, NM

Paul Melstrom Epidemiologist/Toxicologist, CDC and Prevention, Atlanta, GA

Dean Meyer Toxicology Editor, Edanz Group,. Atlanta, GA

Adrian Moore Post Doctoral, College of Biological Sciences, Univ., Minnesota. St. Paul ,MN

Michelle Norris Vet. Med. Diagnostic Lab, University of Georgia, Athens, GA

Taras Oleksyk University of Puerto Rico

Jay Overmyer Technical Expert - Ecotoxicology at Syngenta, Stokesdale, NC

Tonia Parrott Laboratory Emergency Preparedness Coordinator, Georgia Public Health Lab. Atlanta, GA

Palak Patel Sr. Outcomes Rese arch Mgr., Grady Hospital, Atlanta, GA
Christopher Peredney Toxicologist, Washington State Dept of Energy, Seattle., WA

Jennifer Peterson Veterinarian, Firehall4 Animal Hospital, Athens, GA

## **Tox Alumni**

| Brianna  | Peterson       | PHD-Doctor of Philosophy | 2007 Forensics Toxicologist, Washington State Patrol, Seattle, WA  |
|----------|----------------|--------------------------|--|
| Guoqing  | Qian           | PHD-Doctor of Philosophy | 2012 Assistant Professor, University of Texas Health Science Center at Tyler, Tyler, TX  |
| Junshan  | Qiu            | PHD-Doctor of Philosophy | 2008 Staff Fellow FDA Center for Veterinary Medicine, Rockville, MD  |
| Bradley  | Reinhart       | MS-Master of Science     | 2003 Instructor and Lab Manager, Dept. of Biology, Univ. of South Carolina, Aiken, SC  |
| Emily    | Rogers         | MS-Master of Science     | 2004 Toxicologist, USEPA, Washington, D.C.   |
| Suparna  | Sarkar         | PHD-Doctor of Philosophy | 2001 Assistant Professor/Attending Pathologist, Icahn School of Med., Staten Island, NY  |
| Molly    | Schaefer       | MS-Master of Science     | 2006 Safety and Health Management System Coordinator, Southern Company, Atlanta, GA  |
| Daniel   | Schoeffner     | PHD-Doctor of Philosophy | 1998 Staff Field Applications Scientist, Illumina, Marietta, GA  |
| Natalie  | Scholpa        | PHD-Doctor of Philosophy | 2015 Post-Doctoral Research Associate I, College of Pharmacy, Univ., of Arizona, Phoenix, AZ   |
| Sarah    | Schrenk        | MS-Master of Science     | 2002 Assistant Director, Fitness and Camps, Univ., of South Alabama, Mobile, AL  |
| Pankaj   | Sethi          | PHD-Doctor of Philosophy | 2013 Consultant, Cancer Genomics, Ammon Analytical Labs, Linden, NJ  |
| Neelesh  | Sharma         | PHD-Doctor of Philosophy | 2005 Asst. Professor, Medical Oncology, Case Western Reserve Univ., Cleveland, OH  |
| Patricia | Shaw-Allen     | PHD-Doctor of Philosophy | 2002 Toxicologist, USEPA, Cincinnati, OH   |
| William  | Shoults-Wilson | PHD-Doctor of Philosophy | 2008 Asst. Professor, Roosevelt University, Chicago, IL  |
| Gideon   | St. Helen      | PHD-Doctor of Philosophy | 2011 Asst. Professor Dept. of Medicine, UCSF, San Francisco, CA  |
| Bin      | Sun            | PHD-Doctor of Philosophy | 2010 Product Safety Scientist, New Chapter, Inc., Brattleboro, VT  |
| Matthew  | Taylor         | PHD-Doctor of Philosophy | 2008 Assoc. Envir., Health and Safety Product Mgr, Dow Electronics, Marlborough, MA  |
| Glenn    | Tillman        | MS-Master of Science     | 2007 Branch Chief, USDA/FSIS/OPHS/EL/Microbiology, Rutgers Univ. New Brunswick, NJ   |
| Chi-Yen  | Tseng          | MS-Master of Science     | 2013 Aquatic Toxicologist, Flushing NY   |
| Masashi  | Tsunoda        | PHD-Doctor of Philosophy | 1998   |
| Olga     | Tsyusko        | PHD-Doctor of Philosophy | 2004 Faculty, Univ., of Kentucky, Lexington, KY  |
| Jason    | Unrine         | PHD-Doctor of Philosophy | 2004 Associate Professor, Plant and Soil Sciences, Univ., Kentucky. Lexington, KY  |
| Matthew  | Urich          | PHD-Doctor of Philosophy | 2019   |
| Kelley   | Van Vreede     | MS-Master of Science     | 1997 Manager, Product Stewardship, Georgia-Pacific Corp. Atlanta, GA   |
| Tara     | Vogelien       | MS-Master of Science     | 2004 Owner, Burn Boot Camp, Lake Mary, FL  |
| Aswani   | Vunnava        | MS-Master of Science     | 2007 Research Specialist, Lead - Emory University, Atlanta, GA   |
| Rahat    | Wadhwa-Desai   | PHD-Doctor of Philosophy | 2016 Toxicologist, Charles River Laboratories, Ashland, OH   |
| Angel    | Wall           | MS-Master of Science     | 2004 Toxicologist, Savannah River Nuclear Solutions, Aiken, SC   |
| Jincheng | Wang           | PHD-Doctor of Philosophy | 2017 Post Doctoral, Dept., of Biochem 7 Microbiology, Rutgers Univ., New Brunswick, NJ   |
| Hongye   | Wei            | MS-Master of Science     | 2015 Consultant, Complete HEOR Solutions, North Wales, PA  |
| Robert   | Wentworth      | PHD-Doctor of Philosophy | 1998 Science Teacher, Science, Prince Avenue Christian School  |
| Clyde    | Whitworth      | MS-Master of Science     | 1956   |
| Lonnie   | Williams       | PHD-Doctor of Philosophy | 2006 Sr. Toxicologist, Lonza, Alpharetta, GA   |
| Denita   | Williams       | PHD-Doctor of Philosophy | 2010 Toxicologist, Enviro, East Millstone, NJ  |
| Robert   | Williams       | PHD-Doctor of Philosophy | 2017   |
| Rachel   | Worley         | PHD-Doctor of Philosophy | 2016 Environmental Health Scientist, CDC, Atlanta, GA  |
| Xian     | Wu             | PHD-Doctor of Philosophy | 2016 ORISE Fellow, FDA NCTR, Jefferson AR  |
| Shuo     | Xiao           | PHD-Doctor of Philosophy | 2013 Asst. Professor, EHS, Arnold School of Public Health, USC, Columbia, SC   |
| Li       | Xu             | PHD-Doctor of Philosophy | 2010 Postdoctoral Fellow, Univ., of Texas MD Anderson Cancer Center, Houston, TX   |
| Joella   | Xu             | PHD-Doctor of Philosophy | 2019 Virology Postdoctoral Researcher, Emory university School of Medicine, Atlanta, GA  |
| Kathy    | Xue            | PHD-Doctor of Philosophy | 2017 Research Assistant, Chinese Academy of Sciences, Bejing, CH   |
| Neera    | Young          | MS-Master of Science     | 2004 Postdoctoral fellow, Reproductive Developmental Biology, NIEHS, RTP, NC   |
| Fei      | Zhao           | PHD-Doctor of Philosophy | 2014 IRTA Postdoctoral Fellow, National Institute of Environmental Health Sciences, NC Postdoctoral Research Fellow, ORISE, National Center for Toxicological Research, FDA, |
| Jun      | Zhou           | PHD-Doctor of Philosophy | 2018 AR  |





# **Support the Interdisciplinary Toxicology Program**

We want to take this opportunity to invite you to make a financial contribution to the UGA Toxicology Program. You can make a secure credit card contribution online <a href="https://gail.uga.edu/give">https://gail.uga.edu/give</a>. Type "Interdisciplinary Toxicology Program" in the "Special Instructions/Comments" field. Doing so will ensure that your gift is directed to the Toxicology Program.

The Interdisciplinary Program in Toxicology Fund is the University of Georgia Foundation's discretionary account supporting the activities of the Interdisciplinary Toxicology Program. It enables the Program to hose internationally recognized speakers, hold conferences and workshops and provide support for graduate students to attend national meetings and present scientific results.

All contributions are tax-deductible.

# Thank you!!

The Interdisciplinary Toxicology Program

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