

PASSIONATELY CURIOUS

What I wish I had known when I was a Sophomore...

The inside scoop on seminars and other helpful tips

Dr. Sharifa Love-Rutledge

2/8/2019

Ice Breaker-Who is my neighbor?

- On the note card that was given to you when you entered write down your neighbor's responses to the following questions
- What is your name?
- What is your major?
- What is your classification?
- What is something you want to learn from this workshop?

Who am I?

- Dr. Sharifa Love-Rutledge
- Assistant Professor in the Chemistry Department
- I teach General Chemistry and General Biochemistry
- My lab studies type 1 diabetes, aging, and insulin resistance.
- Yes, I am a faculty member, but I am also a human. I enjoy mentoring aspiring chemists and biomedical researchers.

My email address is Sharifa.Love-Rutledge@uah.edu

What is a seminar?

An organized meeting of individuals focused on original research to facilitate the exchange of knowledge that ends with a question and answer period

Who gives seminars?

- Faculty/research scientists from UAH
- Students
- Guests from outside the institution
 - Faculty/Researchers from other Universities
 - Research Scientists from Industry
 - Research Scientists from Government

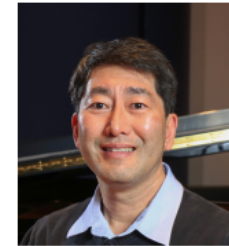


BIOLOGICAL SCIENCES SEMINAR

Shelby Center for Science and Technology Room 109
Friday, February 1, 2019 12:00p.m. - 1:00p.m.



Blending Science, Education and Business in Structural Biology



Dr. Joseph D. Ng
Department of Biological Sciences
University of Alabama in Huntsville

Structural Biology is the study of macromolecular structure and function using the principles of molecular biology, biochemistry and biophysics. The science and techniques of X-ray and neutron crystallography have been used to decipher the molecular structure of macromolecules revealing their evolution and biological function. Our work has been focused on determining the three-dimensional structures and functions of extremophilic proteins. Our goal is to determine their molecular features that allow their host organisms to thrive in extreme environments. Discovering adaptive mechanisms in extremophiles may help us in modifying gene products to perform protein engineering that may have therapeutic potential and commercial value.



Did you know?

- Most departments on campus host seminars...
 - Departmental Seminars
 - Some on UAH Calendar

<https://www.uah.edu/events>

The 2019 Scholars Institute Committee Announces Keynote Speaker »

FEB 05 | SCHOLARS INSTITUTE

The 2019 Scholars Institute Committee is proud to announce Dr. Alexandra "Sasha" Thackaberry as the keynote speaker. Dr. Sasha ...

New Postage Rates as of Jan. 27th, 2019 »

FEB 05 | BUSINESS SERVICES

Previous New Rate Letters (1 oz.) 50 cents 55 cents Letters additional ounces 21 cents 15 cents Outbound International Letters (1 ...

Events

ALL >



Spring 2019 - Training by Request

 JAN 02 - APR 30
 SHELBY CENTER



Volunteer Huntsville: Photo Documentary by Patty Horton

 JAN 09 - MAR 01
 SALMON LIBRARY

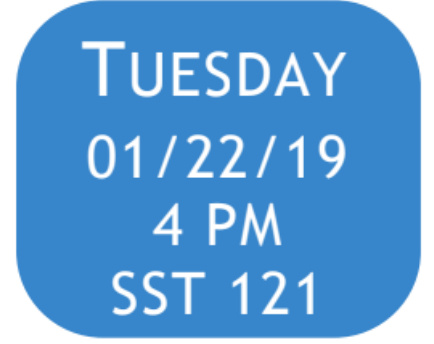


Tuesday Physics Seminar: Gravitational Lensing

 FEB 05 @ 2:50PM
 OPTICS BUILDING

Did you know?

- Most departments on campus host seminars...
 - Departmental Seminars
 - Some on UAH Calendar
 - Some advertised by flyer in department building



Department of Biological Sciences Seminar

AHMED LAWAN

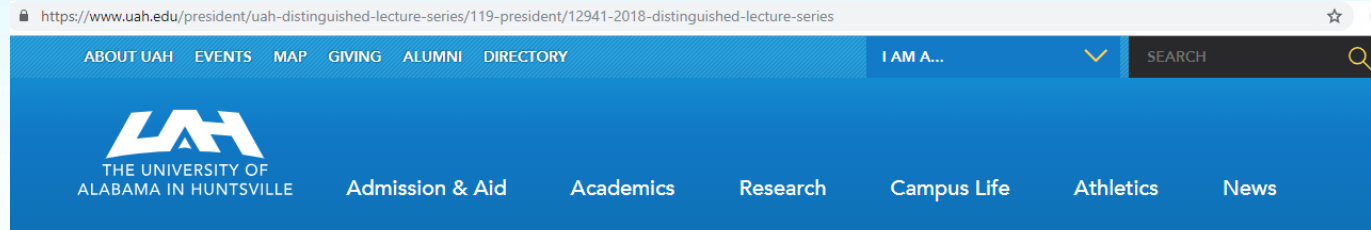
DEPARTMENT OF PHARMACOLOGY
YALE UNIVERSITY SCHOOL OF MEDICINE



Systemic contributions of Liver and Skeletal Muscle to obesity and Fatty liver Disease

Nonalcoholic fatty liver disease (NAFLD) is a chronic liver disease that is characterized by excessive lipid accumulation within hepatocytes known as hepatic steatosis. The intracellular regulators and cellular pathways that contribute to the development of obesity-linked NAFLD have yet to be fully explained. More importantly, there is no pharmacological treatment approved for NAFLD. A better understanding of the pathogenesis of NAFLD would be helpful for developing novel therapeutic treatments for NAFLD. I propose that perturbations in the MAPK/MKP-1 balance in the liver and skeletal muscle contribute to the altered metabolic status associated with NAFLD. Using a new

Did you know: UAH Distinguished Lecture Series



OFFICE OF THE PRESIDENT \ UAH DISTINGUISHED LECTURE SERIES \ 2018 DISTINGUISHED LECTURE SERIES

2018 Distinguished Lecture Series

OFFICE OF THE PRESIDENT
Biography
Memorandums
Presentations
Speeches
Chronology of Strategic Planning
Past Presidents
UAH Distinguished Lecture Series
Contact

James Clapper, former Director of National Intelligence

August 29, 2018



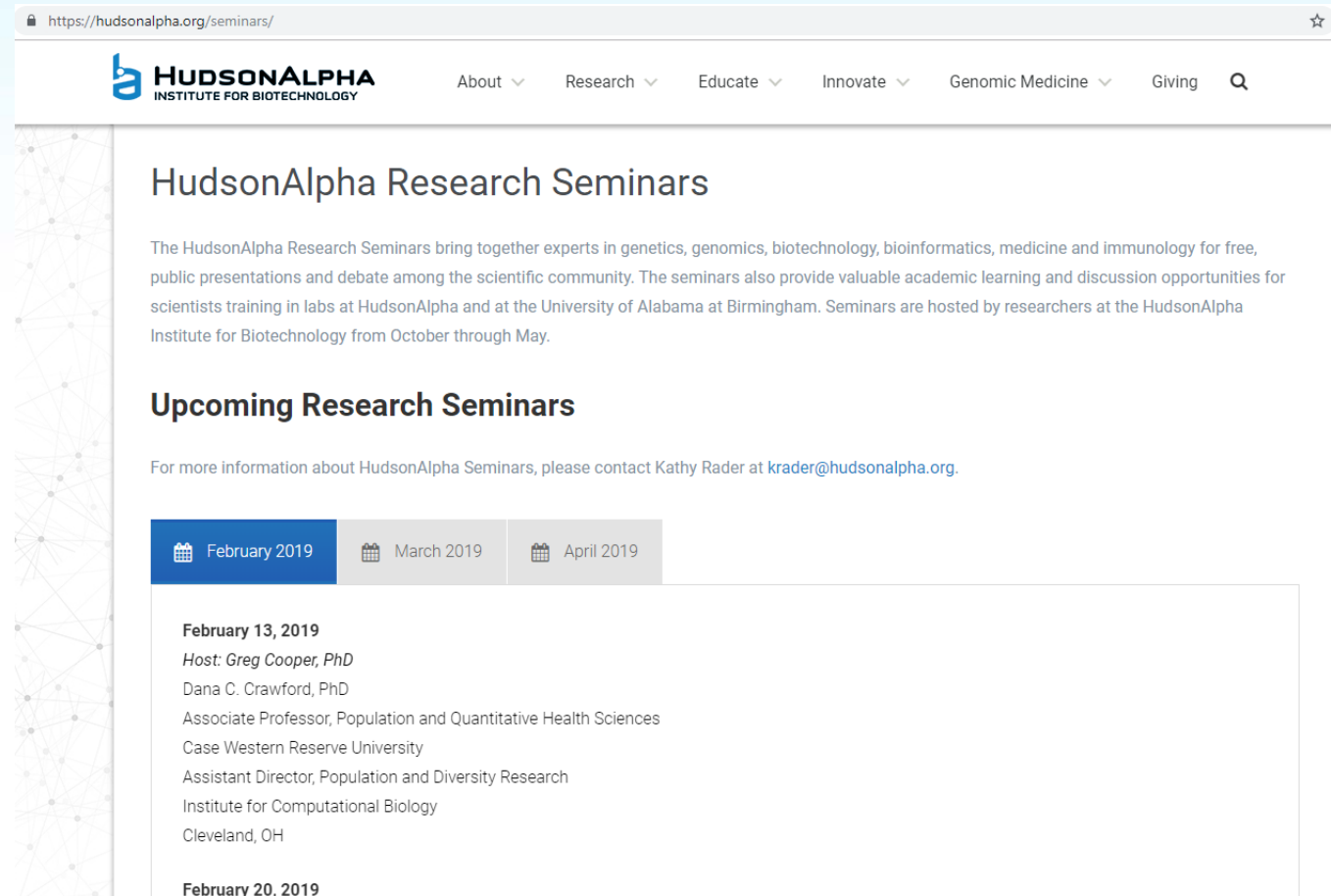
Jim Clapper is one of the finest intelligence minds of the 21st century. From 2010 until 2017, he served as the fourth-ever Director of National Intelligence, the nation's top intelligence official and the principal intelligence advisor to the president. He provided the President Obama's daily morning brief and held one of the broadest portfolios in the entire government, overseeing 200,000 intelligence employees internationally, a \$52 billion budget, and high-profile organizations like the CIA, NSA, and FBI.

Director Clapper is a retired Air Force Lieutenant General who served two tours in Southeast Asia. He brings 50 plus years of military and intelligence experience to discussions regarding the unprecedented breadth of challenges facing the U.S. today—including transnational threats like terrorism, weapons of mass destruction, and cyber attacks, as well as the domestic threats posed by nation states like Russia, China, North Korea, and Iran. He is the author of a new book, Facts and Fears: Hard Truths from a Life in Intelligence.

While a majority of Director Clapper's accomplishments remain shrouded in classification, notable public achievements include improving communication



Did you know: Hudson Alpha offers a seminar series



The screenshot shows a web browser window with the URL <https://hudsonalpha.org/seminars/>. The page features the HudsonAlpha logo and a navigation menu with links for About, Research, Educate, Innovate, Genomic Medicine, and Giving. The main content area is titled "HudsonAlpha Research Seminars" and includes a descriptive paragraph about the seminars. Below this is a section for "Upcoming Research Seminars" with a contact email for Kathy Rader. A navigation bar for months (February, March, April 2019) is present, with February 2019 selected. The first seminar listed is for February 13, 2019, hosted by Greg Cooper, PhD, with Dana C. Crawford, PhD as the guest speaker. The second seminar is for February 20, 2019.

<https://hudsonalpha.org/seminars/>

HUDSONALPHA
INSTITUTE FOR BIOTECHNOLOGY

About ▾ Research ▾ Educate ▾ Innovate ▾ Genomic Medicine ▾ Giving 🔍

HudsonAlpha Research Seminars

The HudsonAlpha Research Seminars bring together experts in genetics, genomics, biotechnology, bioinformatics, medicine and immunology for free, public presentations and debate among the scientific community. The seminars also provide valuable academic learning and discussion opportunities for scientists training in labs at HudsonAlpha and at the University of Alabama at Birmingham. Seminars are hosted by researchers at the HudsonAlpha Institute for Biotechnology from October through May.

Upcoming Research Seminars

For more information about HudsonAlpha Seminars, please contact Kathy Rader at krader@hudsonalpha.org.

📅 February 2019 📅 March 2019 📅 April 2019


February 13, 2019
Host: Greg Cooper, PhD
Dana C. Crawford, PhD
Associate Professor, Population and Quantitative Health Sciences
Case Western Reserve University
Assistant Director, Population and Diversity Research
Institute for Computational Biology
Cleveland, OH

February 20, 2019

Did you know: Alabama A & M has a yearly seminar series given by Nobel Laureates?

www.aamu.edu/Academics/engineering-technology/PCM/Physics/Pages/Memorial-Lecture.aspx


HOME ALUMNI LIBRARY VISITORS DIRECTORY CALENDAR myAAMU

 **ALABAMA A&M UNIVERSITY**
Service is Sovereignty • Founded 1875

Alabama A&M University > Academics > College of Engineering, Technology & Physical Sciences > Physics, Chemistry and Mathematics > Physics


SHARE

Putcha Venkateswarlu Memorial Lecture

 **Dr. Putcha Venkateswarlu**

Dr. Putcha Venkateswarlu was born in the small village of Dantloor, India. He did his undergraduate and postgraduate work in physics in India, and his Ph.D. in physics at Banaras Hindu University under Prof. Asundi, a leading spectroscopist of his time. He went on to perform postdoctoral work at various reputable institutions around the world. He joined Alabama A & M University in 1982 as a professor of physics. During the last 15 years of his life he brought more than \$4 million in research grants to AAMU. In his career he supervised over 50 Ph.D. and over 100 M.S. degree students in physics. At AAMU, 10 students obtained Ph.D. and 11 students M.S. degrees under his supervision. He supervised the very first Ph.D. student in physics at AAMU. Alabama A & M physics knew him as the "Father of Optics Research at AAMU." He published over 200 research papers. He worked with three Nobel Prize winners: Prof. Neils Bohr in Copenhagen, Prof. G. Herzberg at NRC in Canada, and Prof. R. S. Mulliken at the University of Chicago.

Dr. Putcha Venkateswarlu passed away on August 8, 1997 after a sudden illness. True to his constant dedication, he worked till the last breath of his life.

 **2018: Dr. Klaus von Klitzing, 1985 Nobel Laureate in Physics**

The Twentyfirst Putcha Venkateswarlu Memorial Lecture will be given by Klaus von Klitzing from the Max Planck Institute for Solid State Research Stuttgart, Germany, on October 26th, 2018. The title of the talk will be "A New Kilogram in 2019- How my Nobel Prize contributed to this development." He won the Nobel prize in Physics 1985 "for the discovery of the quantized Hall effect."

Do I have to prepare?

- Even if you haven't prepared, the point of a seminar is to disseminate knowledge. Most talks begin with a broad introduction to help the audience understand why the researcher is pursuing the science.
 - So if you are interested go!
- Some of your basic preparation occurs on a daily basis by attending classes. Some topics will have its roots in the information that you are learning in class.
- No formal dress code but I would discourage pajamas; 😊
you want to make a good impression.

How should I prepare?

If the topic is something you have never heard of, you can look up the technique, topic, or speaker.

Example: Chemistry Seminar on 1/25/19

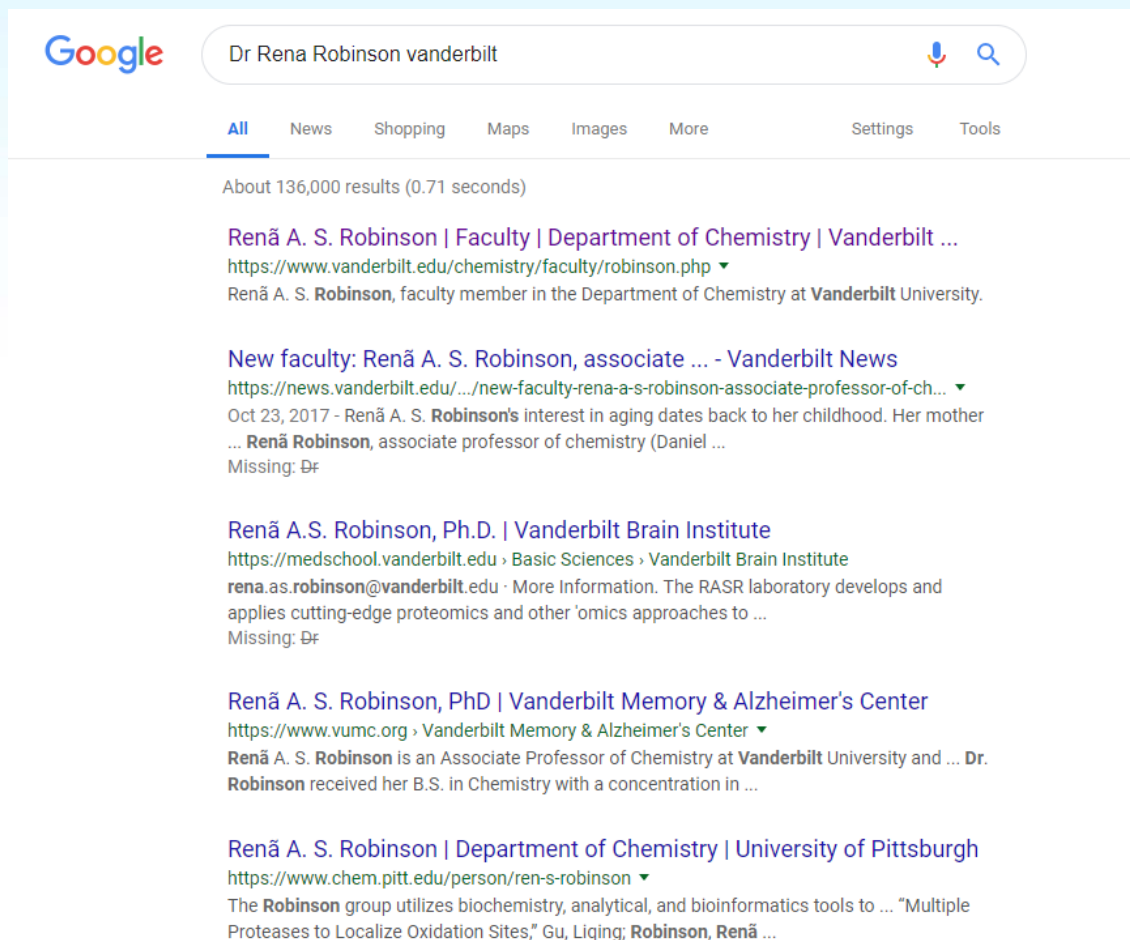
Department of Chemistry Seminar Series

Dr. Renã AS Robinson

Vanderbilt University

**Comprehensive Proteomics and Lipidomics
Strategies to Advance Alzheimer's Disease
Research**

**Friday, January 25, 2019
MSB 113, 2:00 pm**



Google search results for "Dr Rena Robinson vanderbilt". The search bar shows the query and the Google logo. Below the search bar are navigation tabs for All, News, Shopping, Maps, Images, More, Settings, and Tools. The results show approximately 136,000 results in 0.71 seconds. The first result is "Renã A. S. Robinson | Faculty | Department of Chemistry | Vanderbilt ..." with a link to <https://www.vanderbilt.edu/chemistry/faculty/robinson.php>. The second result is "New faculty: Renã A. S. Robinson, associate ..." from Vanderbilt News, dated Oct 23, 2017. The third result is "Renã A.S. Robinson, Ph.D. | Vanderbilt Brain Institute" with a link to <https://medschool.vanderbilt.edu>. The fourth result is "Renã A. S. Robinson, PhD | Vanderbilt Memory & Alzheimer's Center" with a link to <https://www.vumc.org>. The fifth result is "Renã A. S. Robinson | Department of Chemistry | University of Pittsburgh" with a link to <https://www.chem.pitt.edu/person/ren-s-robinson>.

Department of Chemistry

Renā A. S. Robinson

Title and Contact Information

Associate Professor of Chemistry

Dorothy J. Wingfield Phillips
Chancellor's Faculty Fellow

Office: 5423 SC
Phone: (615) 343-0129
Vanderbilt University
Nashville, TN 37235

Email • Website

Education

Ph. D., Indiana University
B.S. in Chemistry, University of Louisville, 2000

Specialties

Bioanalytical Chemistry
Mass Spectrometry
Proteomics
Ion Mobility Spectrometry

In the News

Research News @
Vanderbilt- New faculty: Renā A. S. Robinson, associate professor of chemistry

Renā A. S. Robinson



Selected Publications

orcid.org/0000-0001-6307-8671

"MS3 based Quantitative Proteomics using Pulsed-Q Dissociation (PQD)," Cao, Zhiyun; Evans, Adam R.; Robinson, Renā A. S., *Rapid Communications in Mass Spectrometry*, Vol. 29, **2015**, Pages 1025-1030

"Multiple Proteases to Localize Oxidation Sites," Gu, Liqing; Robinson, Renā A. S., *PLoS ONE*, Vol. 10, **2015**, Pages e0116606

"Global cPILOT Analysis of the APP/PS-1 Mouse Liver Proteome," Evans, Adam R.; Guerrero, Rodolfo, Jr.; Robinson, Renā A. S., *Proteomics Clinical Applications Special Issue on Neurological Disorders*, **2015**, Pages DOI: 10.1002/prca.201400149

"Sample Multiplexing with Cysteine-selective Approaches: cysDML and cPILOT," Gu, Liqing.; Evans, Adam R.; Robinson, Renā A. S., *JASMS*, Vol. 26, **2015**, Pages 615-630

S. Robinson, associate professor of chemistry

Research

We are particularly interested in Alzheimer's disease and sepsis and how the periphery is involved in these disorders. Recently, we have become interested in using our technology to understand the molecular basis of health disparities in Alzheimer's disease and sepsis. These questions require high-throughput analytical methodology and we specialize in developing novel proteomics approaches involving mass spectrometry that are useful for analyzing complex biological tissues, increasing sample multiplexing capability, and studying oxidative post-translational modifications.

Proteomics Technology:

In order to adequately address problems about aging and disease using proteomics, high-throughput approaches are necessary. This is because investigating changes across many clinical samples, disease stages or aging timepoints, with treatment, or across tissues, etc. can take significant amounts of time. We are working to improve the throughput involved with quantitative proteomics methods with chemical tagging approaches. We have developed an enhanced multiplexing approach that combines precursor isotopic labeling and isobaric tagging (cPILOT) methods and frequently use different types of chemical labeling strategies in our application projects. Currently, we are working to 1) increase sample multiplexing capability for global peptide analysis and 2) develop selective quantitative methods for oxidative post-translational modifications such as 3-nitrotyrosine, protein carbonyls, and cysteine oxidation.

Alzheimer's Disease and the Periphery

Alzheimer's disease is a neurodegenerative disorder that devastates millions of aged persons. By 2050, ~15 million persons will suffer from Alzheimer's disease. There is currently no way to cure, delay, or prevent this disease. Many advances have been made that give us valuable insight about the role of the central nervous system in Alzheimer's disease. We believe that bodily systems outside of the central nervous system contribute significantly to disease pathogenesis and in fact could be initiators of Alzheimer's disease. We are using proteomics and other 'omics analyses of animal models and human tissues of Alzheimer's

R.; Robinson, Renā A. S., *JASMS*, Vol. 26, **2015**, Pages 615-630

"Insight into the Mechanism of Graphene Oxide Degradation via the Photo-Fenton Reaction," Bai, Hao; Jiang, Wentao; Kotchey, Gregg P.; Saidi, Wissam A.; Bythell, Benjamin J.; Jarvis, Jacqueline M.; Marshall, A. G.; Robinson, Renā A. S.; Star, A., *J Phys Chem C Nanomater Interfaces*, Vol. 118, **2014**, Pages 10519-10529

"The Role of Proteomics in Understanding Biological Mechanisms of Sepsis," Cao, Zhiyun.; Robinson, Renā A. S., *Proteomics Clinical Applications*, Vol. 8, **2014**, Pages 35-52

"Proteome Characterization of Splenocyte Populations from a Double Transgenic Alzheimer Mouse Model," Cao, Zhiyun; Robinson, Renā A. S., *Proteomics*, Vol. 14, **2014**, Pages 291-297

"Proteomics Reveals Age-related Differences in the Host Immune Response to Sepsis," Cao, Zhiyun; Yende, Sachin; Kellum, John A.; Angus, Derek C.; Robinson, Renā A. S., *Journal of Proteome Research*, Vol. 13, **2014**, Pages 422-432

"Global Combined Precursor Isotopic Labeling and Isobaric Tagging (cPILOT) Approach with selective MS3 Acquisition," Evans, Adam R.; Robinson, Renā A. S., *Proteomics*, Vol. 13, **2013**, Pages 3267-3272

You can use the ORCID

ORCID
Connecting Research and Researchers

5,957,040 ORCID iDs and counting. [See more...](#)

Renã A. S. Robinson
ORCID ID
<https://orcid.org/0000-0001-6307-8671>

Print view

Also known as
Renã A. Sowell

Works (10 of 10) Sort

Additions to the Human Plasma Proteome via a Tandem MARS Depletion iTRAQ-Based Workflow
journal-article
DOI: 10.1155/2013/654356
Source: Renã A. S. Robinson Preferred source

Do Proteomics Analyses Provide Insights into Reduced Oxidative Stress in the Brain of an Alzheimer Disease Transgenic Mouse Model with an M631L Amyloid Precursor Protein Substitution and Thereby the Importance of Amyloid-Beta-Resident Methionine 35 in Alzheimer Disease Pathogenesis?
journal-article
DOI: 10.1089/ars.2011.4470
Source: Renã A. S. Robinson Preferred source

Effects of Fe(II)/H₂O₂ Oxidation on Ubiquitin Conformers Measured by Ion Mobility-Mass Spectrometry
journal-article
DOI: 10.1021/jp3099544
Source: Renã A. S. Robinson Preferred source

Enhanced Sample Multiplexing for Nitrotyrosine-Modified Proteins Using Combined Precursor Isotopic Labeling and Isobaric Tagging
journal-article
DOI: 10.1021/ac202000v

Antioxidants & Redox Signaling, Vol. 17, No. 11 | Forum News & Views

Do Proteomics Analyses Provide Insights into Reduced Oxidative Stress in the Brain of an Alzheimer Disease Transgenic Mouse Model with an M631L Amyloid Precursor Protein Substitution and Thereby the Importance of Amyloid-Beta-Resident Methionine 35 in Alzheimer Disease Pathogenesis?

Rukhsana Sultana, Renã A. S. Robinson, Miranda Bader Lange, Ada Fiorini, Veronica Galvan, Joanna Fombonne, Austin Baker, Olivia Gorostiza, Junli Zhang, Jian Cai, William M. Pierce, Dale E. Bredesen, and D. Allan Butterfield [✉](#)

Published Online: 25 Sep 2012 | <https://doi.org/10.1089/ars.2011.4470>

[View Article](#)

[Tools](#) [Share](#)

Abstract

The single methionine (Met/M) residue of amyloid-beta ($A\beta$) peptide, at position 35 of the 42-mer, has important relevance for $A\beta$ -induced oxidative stress and neurotoxicity. Recent *in vivo* brain studies in a transgenic (Tg) Alzheimer disease (AD) mouse model with Swedish and Indiana familial AD mutations in human amyloid precursor protein (APP) (referred to as the J20 Tg mouse) demonstrated increased levels of oxidative stress. However, the substitution of the Met631 residue of APP to leucine (Leu/L) (M631L in human APP numbering, referred to as M631L Tg and corresponding to residue 35 of $A\beta$ 1–42) resulted in no significant *in vivo* oxidative stress levels, thereby supporting the hypothesis that Met-35 of $A\beta$ contributes to oxidative insult in the AD brain. It is conceivable that oxidative stress mediated by Met-35 of $A\beta$ is important in regulating numerous downstream effects, leading to differential levels of relevant biochemical pathways in AD. Therefore, in the

ALABAMA IN HUNTSVILLE

Or a search engine

https://scholar.google.com/scholar?hl=en&as_sdt=0%2C1&q=Rena+Robinson+&btnG=

le Scholar

About 15,000 results (0.07 sec)

User profiles for Rena Robinson

9 **Rena AS Robinson, Rena A Robinson, Rena Sowell**
8 Professor of Chemistry, University of Pittsburgh
5 Verified email at pitt.edu
nge... Cited by 1688

Redox proteomics in selected neurodegenerative disorders: from its infancy to future applications [HTML] nih.gov
... T Muhanib, CP Hughes, [RAS Robinson](#) ... - Antioxidants & redox ... 2012 - liebertpub.com
Several studies demonstrated that oxidative damage is a characteristic feature of many neurodegenerative diseases. The accumulation of oxidatively modified proteins may disrupt cellular functions by affecting protein expression, protein turnover, cell signaling, and ...
☆ 99 Cited by 122 Related articles All 26 versions Web of Science: 92

Validity of the verbal immediacy scale
[RY Robinson](#), VP Richmond - Communication Research Reports, 1995 - Taylor & Francis
The development and use of the verbal immediacy scale (Gorham, 1988) are outlined and discussed. Data are presented which bring into question the validity of the measure. It is concluded that the scale may not be a valid operationalization of the immediacy construct as ...
☆ 99 Cited by 83 Related articles All 4 versions

Mass spectrometry and redox proteomics: applications in disease [PDF] wiley.com
... [L Gu](#), [FD Domenico](#), [RAS Robinson](#) - Mass spectrometry ... 2014 - Wiley Online Library
Proteomics techniques are continuously being developed to further understanding of biology and disease. Many of the pathways that are relevant to disease mechanisms rely on the identification of post-translational modifications (PTMs) such as phosphorylation ...
☆ 99 Cited by 73 Related articles All 15 versions Web of Science: 51

Redox proteomics analysis of brains from subjects with amnesic mild cognitive impairment compared to brains from subjects with preclinical Alzheimer's disease ... [PDF] uky.edu
CD Alulise, [RAS Robinson](#), J Cai ... - Journal of ... 2011 - content.iospress.com
Alzheimer's disease (AD) is a central nervous system disorder pathologically characterized by senile plaques, neurofibrillary tangles, and synapse loss. A small percentage of individuals with normal antemortem psychometric scores, after adjustments for age and ...
☆ 99 Cited by 69 Related articles All 9 versions Web of Science: 54

Preclinical Alzheimer disease: brain oxidative stress, A β peptide and proteomics [HTML] nih.gov
CD Alulise, [RAS Robinson](#), TL Beckett, MP Murphy ... - Neurobiology of ... 2010 - Elsevier
Alzheimer disease (AD) is a neurodegenerative disorder characterized clinically by progressive memory loss and subsequent dementia and neuropathologically by senile plaques, neurofibrillary tangles, and synapse loss. Interestingly, a small percentage of ...
☆ 99 Cited by 68 Related articles All 9 versions Web of Science: 49

Differential expression and redox proteomics analyses of an Alzheimer disease transgenic mouse model: effects of the amyloid- β peptide of amyloid precursor ... [HTML] nih.gov

Scopus

23 document results

AUTHOR NAME (rena AND robinson)

Search within results...

Analyze search results

Document title	Authors	Year	Source	Cited by
1 Sample Multiplexing Strategies in Quantitative Proteomics	Arul, A.B., Robinson, R.A.S.	2019	Analytical Chemistry 91(1), pp. 178-189	0
2 Proteomic identification of virulence-related factors in young and aging C. elegans infected with Pseudomonas aeruginosa	King, C.D., Singh, D., Holden, K., (...), Ghazi, A., Robinson, R.A.S.	2018	Journal of Proteomics 181, pp. 92-103	2
3 Enhanced sample multiplexing of tissues using combined precursor isotopic labeling and isobaric tagging (P-LIOT)	King, C.D., Duderhoffer, J.D., Gu, L., Evans, A.R., Robinson, R.A.S.	2017	Journal of Visualized Experiments 2017(125), e55466	1
4 Dataset of proteomics analysis of aging C. elegans exposed to Pseudomonas aeruginosa via the PAK1	King, C.D., Singh, D., Holden, K., (...), Ghazi, A., Robinson, R.A.S.	2017	Data in Brief 11, pp. 245-251	0

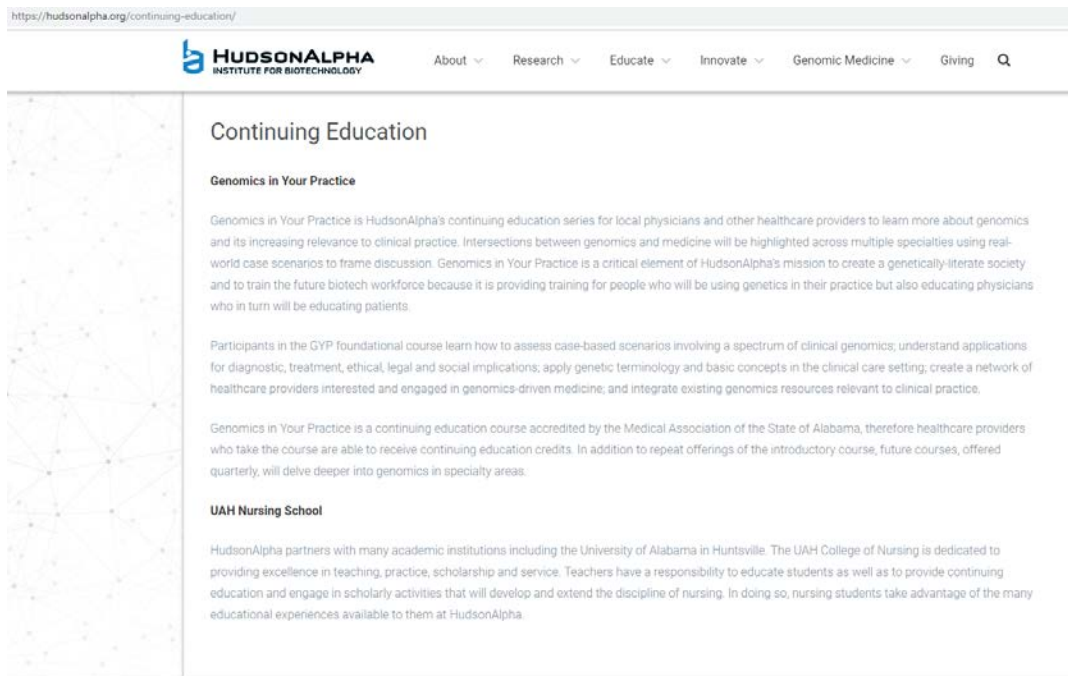
Author name (22)

What should I do?

- Please don't sleep in the seminar.
- Silence or turn off your cell phone.
- It is ok to take notes or even write down questions.
- It is ok to meet other audience members around you before/after the seminar.
- You can also take the time to introduce yourself to faculty within your department. This time is a great time to make a good impression as well as learn what types of research that are going on in their labs.

Are seminars only for academics?

- Seminars aren't just for students interested in graduate school. Physicians and other health-related professionals will have to participate in Continuing Education courses and seminars.



https://hudsonalpha.org/continuing-education/

HUDSONALPHA
INSTITUTE FOR BIOTECHNOLOGY

About | Research | Educate | Innovate | Genomic Medicine | Giving

Continuing Education

Genomics in Your Practice

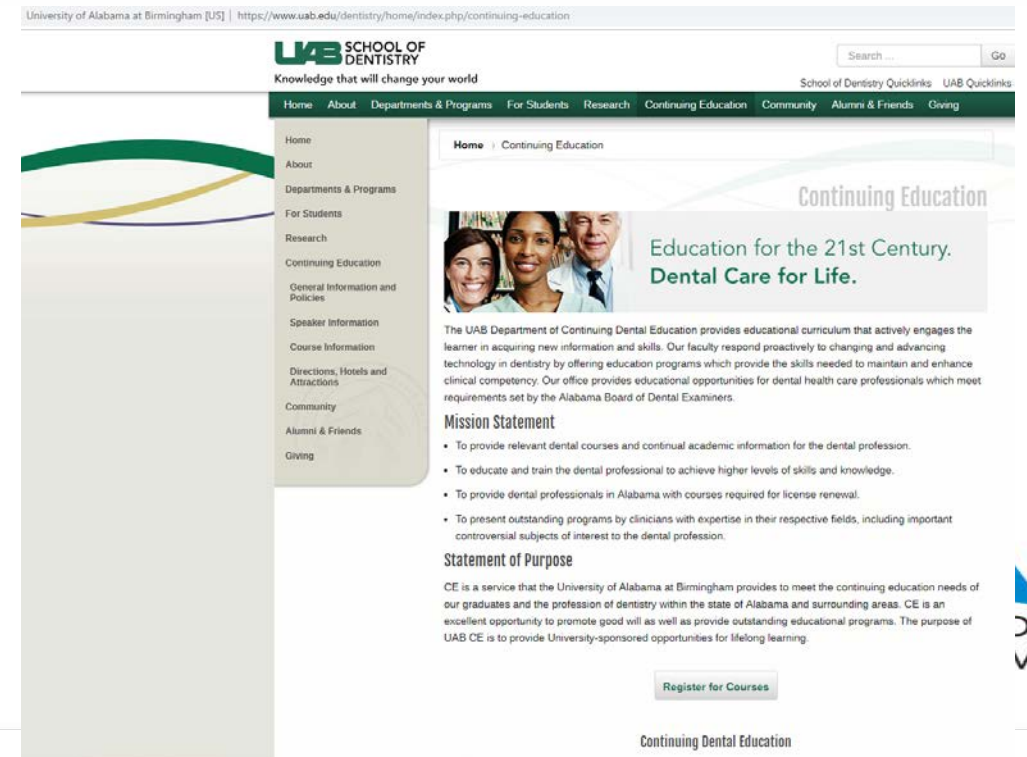
Genomics in Your Practice is HudsonAlpha's continuing education series for local physicians and other healthcare providers to learn more about genomics and its increasing relevance to clinical practice. Intersections between genomics and medicine will be highlighted across multiple specialties using real-world case scenarios to frame discussion. Genomics in Your Practice is a critical element of HudsonAlpha's mission to create a genetically-literate society and to train the future biotech workforce because it is providing training for people who will be using genetics in their practice but also educating physicians who in turn will be educating patients.

Participants in the GYP foundational course learn how to assess case-based scenarios involving a spectrum of clinical genomics; understand applications for diagnostic, treatment, ethical, legal and social implications; apply genetic terminology and basic concepts in the clinical care setting; create a network of healthcare providers interested and engaged in genomics-driven medicine; and integrate existing genomics resources relevant to clinical practice.

Genomics in Your Practice is a continuing education course accredited by the Medical Association of the State of Alabama, therefore healthcare providers who take the course are able to receive continuing education credits. In addition to repeat offerings of the introductory course, future courses, offered quarterly, will delve deeper into genomics in specialty areas.

UAH Nursing School

HudsonAlpha partners with many academic institutions including the University of Alabama in Huntsville. The UAH College of Nursing is dedicated to providing excellence in teaching, practice, scholarship and service. Teachers have a responsibility to educate students as well as to provide continuing education and engage in scholarly activities that will develop and extend the discipline of nursing. In doing so, nursing students take advantage of the many educational experiences available to them at HudsonAlpha.



University of Alabama at Birmingham [US] | https://www.uab.edu/dentistry/home/index.php/continuing-education

UAB SCHOOL OF DENTISTRY
Knowledge that will change your world

Search ... Go

School of Dentistry Quicklinks | UAB Quicklinks

Home | About | Departments & Programs | For Students | Research | Continuing Education | Community | Alumni & Friends | Giving

Home | Continuing Education

Continuing Education

Education for the 21st Century. Dental Care for Life.

The UAB Department of Continuing Dental Education provides educational curriculum that actively engages the learner in acquiring new information and skills. Our faculty respond proactively to changing and advancing technology in dentistry by offering education programs which provide the skills needed to maintain and enhance clinical competency. Our office provides educational opportunities for dental health care professionals which meet requirements set by the Alabama Board of Dental Examiners.

Mission Statement


- To provide relevant dental courses and continual academic information for the dental profession.
- To educate and train the dental professional to achieve higher levels of skills and knowledge.
- To provide dental professionals in Alabama with courses required for license renewal.
- To present outstanding programs by clinicians with expertise in their respective fields, including important controversial subjects of interest to the dental profession.

Statement of Purpose

CE is a service that the University of Alabama at Birmingham provides to meet the continuing education needs of our graduates and the profession of dentistry within the state of Alabama and surrounding areas. CE is an excellent opportunity to promote good will as well as provide outstanding educational programs. The purpose of UAB CE is to provide University-sponsored opportunities for lifelong learning.

Register for Courses

Continuing Dental Education



What are additional benefits to attending seminars?

- Presentation skills are honed over time.
- Seminar is a great time to be inspired to the techniques utilized by the speakers to convey complex information.
- Alternatively, seminar is also a great time to learn what techniques not to use to convey complex information

How do I ask questions?

- There often is a short window (10-15 minutes) after the seminar where you can ask the speaker questions
 - This can be approached in three ways
 1. Asking the question during the Q&A portion of the talk
 2. Approaching the speaker immediately after the seminar and Q & A portion closes to ask a question one on one.
 3. Email the speaker directly to ask your question

How do I ask questions? First option

1. Organize your thoughts, during the summary of the presentation
2. Wait until the Q & A period opens up.
3. Raise your hand and wait to be acknowledged by the moderator or presenter.
 - a. In some instances, it may be a great idea to complement the seminar and state your name and classification.
4. Ask, but remember to project your voice to ensure that everyone in the room can hear you.

How do I ask questions? The Second option

- The approach the speaker option may be more difficult because you will probably be one of many who wants the one on one interaction.
 - It is a valuable tool to begin to increase your network.
 - It should be reserved for speakers that you have a genuine interest in engaging with. Be strategic, clear, and concise. You are competing with others for the time.

How do I ask questions? The Third option

- I would encourage anyone who wants to pursue the third option to introduce themselves after the seminar so that the speaker can put a face with an email.
 - Although this option seems the safest, most speakers are inundated with emails.
 - The SSC has great advice on how to appropriately develop emails, and I would encourage you to watch the video.


Student Success Center > Pages > How Do I Email My Professor?

Home
Modules
Student Success Center

How Do I Email My Professor?

Watch this video to find out some dos and don'ts on how to email your professor.

How to Email Your Professor



For more information read [How To Email Your Professor](#).

To make an academic coaching appointment, click [here](#). Appointments are available in person or online.

How do I ask questions?

Speakers love undergraduate questions. A large portion of the speakers are faculty and are excited to engage with the next generation of scientists. We find the act of asking brave!

- Some speakers come with the thought of recruiting students for graduate programs or summer research opportunities. If you ask good questions, they will be impressed.
 - Sometimes the question you can ask in a one on one meeting is if they have summer research opportunities?

Quotes from faculty about questions

- I think an undergraduate questioning after listening to a seminar sends some signals:
 - Speaker is impressed that UG student is so much engaged in the talk, he/she will think highly of our students.
 - An instructor (like me) is impressed and am proud of our UG student.
 - It also reflects that we as teachers are doing such an excellent job of educating the students that they are confident in asking a question(s), and comprehending the subject matter.
 - This also shows to me that students are relating things they learn in class to a real research problem.
- Dr. Mukherjee, Assistant Professor-Chemistry

- This one is my observation: When I give a talk to my department I always look forward questions from both grad and undergrad students because I know that the faculty will not help me resolving the problem, fresh eyes are always better :)
- Dr. Cruz-Vera, Associate Professor-Biology

Quotes from faculty about questions

- They should attend, and they absolutely should ask questions. This is not only OK, it's expected by the speakers. Students will certainly have LOTS of questions, so ask away. Speakers love questions and opportunity to talk more. There is sometimes the perception that questions need to be "deep" or "insightful." Nonsense. Anything you don't understand is a question.

-Dr. Miller, Chair-Physics

- Your question may lead to a completely new research direction. So, please ask questions! (and I am too old to think of new research ideas on my own)

- Dr. Scholz, Professor-Chemistry

How do I benefit from attending?
(Audience participation)

ATS-ESS	Wednesdays 1:00-2:20	CRH 4065	
Date	Speaker	Affiliation	Seminar Title
Spring 2019			
01/09/2019	AMS Meeting		
01/16/2019	Graham Sherwood	Gulf of Maine Research Institute	Field notes from one of the most rapidly warming fishery ecosystems on the planet
01/23/2019	Sarah Bang	NASA MSFC/NPP	Tropical Oceanic Thunderstorms: Evolution, Organization, and Electrification
01/30/2019	Mike Newchurch	UAH	TOLNet and TEMPO: the Future of Air-Quality Measurement
02/06/2019	Kelley Murphy	UAH	Assessing Lightning Risk in Vulnerable Outdoor Environment
02/13/2019			
02/20/2019	Dr. Naiara Pinto	Jet Propulsion Laboratory	
02/27/2019	Dr. Bhaduri Bhudendra	Oak Ridge Nat'l Lab	
03/06/2019	Ian Chang	Oklahoma University	
03/13/2019	Dr. Yangyang Xu	Texas A&M	aerosol pollution in the context of climate variability and change: attribution and impact
03/20/2019	Spring Break		
03/27/2019			
04/03/2019	Students (3) - Possible		
04/10/2019	Students (3)		
04/17/2019	Students (4)		

Chemistry Seminar Spring 2019
Friday at 2pm, MSB 113

Date	Speaker	Affiliation
01/18/2019	Seminar Expectation Discussion	Mukherjee, UAH
01/25/2019	Rená A. S. Robinson	Vanderbilt University
02/01/2018	Paul Russo (Host: Dr. Scholz)	Georgia Tech
02/8/2018	Jesse Carrick (Host: Dr. Foster)	Tennessee Tech University
02/15/2018	Anu Subramanian (Host: Dr. Foster)	UAH
02/22/2018	Chengshan Wang (Host: Dr. Love-Rutledge)	MTSU
03/01/2018	Russell Schmehl	Tulane University
03/8/2018	Reserve	
03/15/2018	Reserve	
03/22/2018	Spring break	
03/29/2018	Ivan Lomakin (Host: Dr. McFeeters)	Yale University
04/5/2018	Shanlin Pan	UA
04/12/2018	Davita Watkins (Host: Dr. Love-Rutledge)	University of Mississippi
04/19/2018	Student speaker	
04/26/2018	Last class	

Physics & Astronomy

- Jan. 15:
 - Speaker: Dr. Chong Ge (UAH)
 - Time/Location: 2:50PM / OPB234-237
 - Host: Dr. Ming Sun
- 22:
 - Speaker: Mr. Rithvik Reddy Gutha (UAH)
 - Time/Location: 2:50PM / OPB234-237
 - Host: Dr. Seyed Sadeghi
- 24:
 - Speaker: Dr. Massimo Gaspari (Princeton)
 - Time/Location: 10:50AM / OPB234-237
 - Host: Dr. Ming Sun
- 29:
 - Speaker: Dr. Hao-Yi Wu (Ohio State University)
 - Time/Location: 2:50PM / OPB234-237
 - Host: Dr. Ming Sun
- 31:
 - Speaker: Dr. Stephen Waalker (GSFC/NASA)
 - Time/Location: 10:50AM / OPB234-237
 - Host: Dr. Ming Sun
- Feb. 5:
 - Speaker: Dr. Matthew Bayliss (MIT)
 - Time/Location: 2:50PM / OPB234-237
 - Host: Dr. Ming Sun
- 7:
 - Speaker: Dr. Hsiang-Yi Karen Yang (University of Maryland)
 - Time/Location: 10:50AM / OPB234-237
 - Host: Dr. Ming Sun
- 12: NO seminar because of special Thursday seminars
- 19: TBD
- 26: TBD
- Mar. 5:
 - Speaker: Dr. Peter Veres (UAH)
 - Time/Location: 2:50PM / OPB234-237
 - Host: Dr. Ming Sun
- 12: NO seminar because of special Thursday seminars
- 26: NO seminar because of special Thursday seminars
- Apr. 2:
 - Speaker: Dr. Jeremy Bailin (UA)
 - Time/Location: 2:50PM / OPB234-237
 - Host: Dr. Ming Sun
- 16:
 - Speaker: Dr. Hayk Harutyunyan (Emory)
 - Time/Location: 2:50PM / OPB234-237
 - Host: Dr. Seyed Sadeghi
-



BIOLOGICAL SCIENCES SEMINAR

Shelby Center SST 301

Monday, February 11, 2019 11:00 PM



Mate choice and speciation in North American freshwater fishes

Tamra Mendelson

Professor and Associate Chair
Department of Biological Sciences
University of Maryland Baltimore County



**The University of Alabama in Huntsville
Computer Science Department**

Charles Fleming, Ph.D.
Xi'an Jiaotong-Liverpool University

Candidate for the Position of Assistant Professor of Computer Science

Monday, February 11, 2019

10:00 am -11:00 am

OKT N302

**SemanticLock: An Authentication Method for Mobile Devices Using
Semantically-linked Images**

ABSTRACT: In this talk I will introduce SemanticLock, a simple, fast, and memorable single factor graphical authentication approach for mobile devices. SemanticLock uses a set of graphical images as password tokens to construct a semantically memorable story representing the user's password. While graphical passwords have been shown in some cases to have lower entropy than other password types, we avoid this problem by studying user preferences and selecting images that avoid any type of explicit or implicit bias, resulting in an effective password space that is essentially the same as the total password space. Results of a five-week user study comparing SemanticLock against other authentication systems show that SemanticLock outperforms or matches PIN and PATTERN in speed, user acceptance, security, usability and like-ability and is significantly more memorable.

BIOGRAPHY: Charles Fleming is an Associate Professor in the Department of Computer Science and Software Engineering at Xi'an Jiaotong-Liverpool University. He received his PhD in Computer Science from the University of California Los Angeles and a BS degree in Mathematics from the University of Southern Mississippi. His research interests include security and privacy, computer vision and machine learning, and the intersection of the two fields.



**The University of Alabama in Huntsville
Computer Science Department**

Charles W. Walter, Ph.D.
The University of Tulsa

Candidate for the Position of Assistant Professor of Computer Science

**Wednesday, February 13, 2019
10:00 am – 11:00 am
OKT N302**

Securing Wearables through The Personal Fog

Abstract Wearable computing devices have become ubiquitous, with fitness and health trackers, smart watches capable of making payments, and hearables tracking heart rate and providing real-time language translation. Wearables repeatedly collect data from their users and surroundings, transmitting that data back to their base station via Bluetooth. Sometimes this data is anonymized and sent to cloud servers for analysis and additional storage, though often the data is associated with a user when it is sent to the cloud. Unfortunately, wearables are open to attack vectors that most users are unaware of. Attack vectors such as eavesdropping, Man-in-the-Middle attacks, Denial of Service attacks, and phishing attacks are all possible. Worse, wearables can fall prey to these attacks without the user becoming aware of the situation. Because wearables are designed to be worn at all times, a user can unwittingly move from a secure to an insecure environment, increasing the security threat. The challenge to experimenting with attacks and potential mitigations on wearables is the proprietary restrictions on consumer wearables.

In this talk, I discuss research to design, implement, and evaluate an architecture and application for securing wearables. The creation of *the personal fog* architecture provides additional power to the wearables at the network edge, allowing them to make decisions about their own security state. Experimentation is performed using a developed testbed of Raspberry Pis that simulate near-future wearables and their base stations in a social setting. I illustrate wearable attack vectors and describe how an application created for use by wearables in the personal fog architecture provides security and social awareness. An approach to automatic evaluation and verification of the wearable user is shown using a shared data method based on the personal fog architecture.

Bio Dr. Charles Walter is a post-doctoral researcher at The University of Tulsa. He received his PhD from The University of Tulsa in 2018. His research interests include wearable security, fog computing, cybersecurity, self-adaptive systems, human trust in code, software engineering, computer science education, robotics, and Augmented and Virtual Reality.



Panel

- During this time if you have a question feel free to raise your hand and ask or you can write it on a piece of paper and pass it to the end of your row.

Audience participation

- What are some of your barriers to participating in seminar?

- What would you need to feel comfortable attending?

What's next?

Now that you have learned about attending seminars, keep an eye out for the upcoming workshop on “Speaking your science”