YOU DON’T HAVE TO BE AN IRON-MAN TO SHARE YOUR RESEARCH

Kyle Blalock
MFA, Imaging Arts and Sciences ’16
Greatness through Creativity, Innovation, and Research
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It gives me great pleasure to welcome you to the 9th Annual Graduate Research Symposium and Showcase. Today is the culminating event of the 4th Annual Graduate Education Week which highlights the creative, innovative and entrepreneurial research and scholarship of graduate students from our colleges and degree granting units. It has been an incredible week of events and this year’s theme, “Greatness through Creativity, Innovation and Research” has been evident throughout.

With its new Carnegie classification of “doctoral university-moderate research”, RIT has reached an exciting juncture in its transition to a student-centered research university. Research, experiential learning and creative endeavors are key goals of our strategic plan. Graduate Education Week and the Research Symposium and Showcase assist in achieving our strategic goals and are a recognition of the learning excellence that we engage in at RIT.

During today’s program you will have the opportunity to hear presentations of student and faculty research, meet with students showcasing research and project posters, and observe the finals of the Masters level 3-Minute Thesis competition. Additionally, you will hear from one of our outstanding alumni, Chrysa Charno, our luncheon keynote speaker. We will end the day with a discussion by Peter Hirtle, Affiliate Fellow of the Berkman Klein Center for Internet and Society at Harvard University.

On behalf of the Office of Graduate Education I would like to thank our program participants and our many sponsors without whom this week would not have been possible. It is my hope that you will leave today’s event with an even greater appreciation for the mission of graduate education at RIT and for our bright, dedicated students. Enjoy the day.
The annual Graduate Research Symposium and Showcase is designed to broaden exposure to cutting-edge research, creativity and innovation. The symposium brings students, faculty, staff, alumni and community members together and helps us to continue to grow a strong graduate culture here at RIT. I hope you will use this event to initiate collaborations, share ideas and swap lessons learned.

This is a day for the RIT graduate community to shine and I am thrilled I have a part in making that happen.

Dear RIT Graduate Students,

It is my genuine pleasure to welcome you to the 9th annual Graduate Research Symposium & Showcase (GRSS). Creating successful graduates ready for dynamic global careers is of critical importance to RIT, and events such as the GRSS have become central to our efforts to showcase the strong, diverse community of graduate education that exists at our university. Past symposia have demonstrated the variety, innovation and depth of our graduate education programs, and I am proud to share your research and creative work with the larger community. Although I will not be able to be physically present this year, let me wish all of you a wonderful experience at the GRSS and congratulate you on your contributions to scholarship, creativity and professionalism at RIT.

Have a great Symposium!

Rauncie Ryan
Assistant Dean of Graduate Student Success

Dr. Jeremy HAEFNER
Provost and Senior-Vice-President for Academic Affairs
It has been tremendously gratifying to watch the growth of the graduate research symposium over the past decade. It is a wonderful reflection of the growth of research at RIT. Although arguably I have what some might call a “front row seat,” I am still amazed and impressed by the quality and diversity of research that is presented each year at our graduate research symposium and showcase.

On behalf of the Office of the Vice President for Research, I would like to congratulate all of our program participants and thank our many sponsors without whom this week would not have been possible. Although I have said it before, due to the wonderful growth in our graduate research programs it allows me to say one again, please enjoy what I know will be our best ever graduate research symposium and showcase!

There is no better way to conclude Graduate Education week at RIT than to animate the emerging ‘greatness’ of our graduate students’ scholarship through the Research Symposium and Showcase. The work displayed and curated today provides us with a glimpse into the future—a future in which our graduate students will join the ranks of thought leaders, innovators and creative geniuses. Thank you to the faculty, staff, alumni and friends of RIT who help promote this special kind of greatness every day!
Chrysa CHARNO
Distinguished Alumni

Physician Assistant for 13 years in the fields of orthopedics, internal medicine, plastic surgery, dermatology, emergency medicine and urgent care. Chrysa first came to RIT as a transfer student into the Physician Assistant Program and graduated with honors in 2003. Her passion for learning brought her back to continue her education and she graduated from the Saunders College of Business with an MBA concentrating in Entrepreneurship. She continues to have a passion for student education through teaching and preceptorships and started the first endowment scholarship for Physician Assistant students. In 2012 she was the first PA and first alumnus to be awarded the Distinguished Alumni Award for the new College of Health Sciences and Technology. Chrysa lives in Webster with her husband Jason, a teacher and varsity girls basketball coach and three children Ryan (6), Matilynn (4) and Taylor (1).
Schedule

Friday
Feb 24, 2017

8:15 am - 9:15 am  Check in, Breakfast and Welcome
9:15 am - 10:00 am Faculty and Student Presentations
10:15 am - 11:30 am Oral Presentations
11:30 am - 1:00 pm  Lunch, PhD 3-Minute Winner Presentation and Keynote Speaker
1:00 pm - 2:15 pm  Poster Presentations – All Graduate Students
2:30 pm - 3:00 pm  3 Minute Master's Thesis Presentation Competition Finals
3:00 pm - 3:20 pm  Question and Answer Session with Special Guest Peter Hirtle
3:20 pm - 3:30 pm  3-Minute Master’s Thesis and Poster Competition Winners announced and closing
## Presentations

### Faculty-Student Presentations | 9:15 am - 10:00 am

**Room 2240**

<table>
<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
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<tbody>
<tr>
<td>Meghan Lewis/ Dr. Caroline Easton</td>
<td>Cognitive Behavioral Therapy and Avatars for Use Among Families w/Behavioral Health Treatment Needs</td>
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<tr>
<td>Jesse Redlo/Dr. Jerrie Hsieh</td>
<td>Students’ Perceived Features &amp; Barriers To Success In Online Courses: A Case Study.</td>
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<tr>
<td>Yuan Tian/Dr. Shu Chang</td>
<td>Effect of Microstructures on Properties of Powder Based 3D Printing</td>
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### Individual Presentations | 10:15 am - 11:30 am

**Room 2120**

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<thead>
<tr>
<th>Presenter</th>
<th>Title</th>
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<tbody>
<tr>
<td>Thomas White</td>
<td>Spin Memory Loss in Thin Film Multilayers</td>
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<tr>
<td>Chi Nguyen</td>
<td>Probing the Fluctuations in the Extragalactic Background Light</td>
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<tr>
<td>Andrew Bucossi</td>
<td>Fabrication and Doping of High-Conductivity Carbon Nanotube Wires using Novel Solution-Based Dopants</td>
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<td>Zachary Silberman</td>
<td>Generation of Vector Potentials for Numerical Relativity Simulations</td>
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**Room 2130**

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<tr>
<th>Presenter</th>
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<tr>
<td>Jade Myers</td>
<td>Thought-Actuated Prostheses: Accessibility &amp; Selective Signal pruning</td>
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<tr>
<td>Dimitrios Chachlakis</td>
<td>Reduced-rank Filtering with L1-norm Subspaces</td>
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<tr>
<td>Kevin Cooke</td>
<td>Ancestry of the Most Massive Galaxies in the Universe</td>
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<tr>
<td>Yoon Jin Sol Lee</td>
<td>Hotel Flourish</td>
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Room 2140

Yilong Liang: Target Detection in Hyperspectral Images: Operation in Spatial-Spectral Coherence Regions

Yashashree Jadhav: Displaced Supermassive Black Holes in Nearby Elliptical Galaxies: Signposts of Gravitational Recoil?

Joe Lee: I, For One, Welcome Our New Robotic Collaborators

Room 2230

Jacob Lange: Directly Comparing Gravitational Wave Data to Numerical Relativity Simulations: Systematics and demonstrations

Pritam Poddar: Lattice Structures: Additive Manufacturing and Design

Daniel Wysocki: Inferring the Compact Binary Merger Rate with Gravitational Wave Observations

Jennifer Russell: Enabling Circular Economy Through the Transformation of Life - Extension Process (LEP) Markets

Poster Presentations | 1:00 pm - 2:15 pm

Area 1
- Ben Lipton
- Irene Fobe
- William Armington
- Larwan Berke
- Yu Kee Ooi
- Alyssa Recinella

Area 2
- Marty Gordon
- Payap Sirinam
- Sovantharith Seng
- Majed Hader
- Abutaleb Zarban
- Martin Dann

Area 3
- Taylor Williams
- Sarah Cabral
- Charlie Border
- Fanyi Cheng
- Kyle Cromption
- Prashnna Kumar Gyawali

Area 4
- Kaleigh Sweeney
- Sanjana Kapisthalam
- Varun Bhalerao
- Chi Nguyen
- Sameer Magar
- Anthony Leggiero

Area 5
- Khaled Albusays
- Sedeeq Alkhazraji
- Isaac Perez
- Hang Guo
- Sushant Kafle
We would like to thank all our Volunteers and

Our sponsors

Office of the Provost
Student Affairs
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Melbert B. Cary Jr. Distinguished Professor
Paul and Louise Miller Distinguished Professor
Office of Career Services and Cooperative Education
RIT Alumni Association

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