

Summer 2017

Dear Friends of Tufts Physics & Astronomy,

This summer marks the start of our second year in 574 Boston Ave. One of the most rewarding aspects of the new building has been the way that it has brought our faculty, staff, and student communities together around our key activities of research and teaching. Our undergraduate students contribute in powerful ways to our research, our graduate students play vital roles in our teaching, and our faculty, post-docs and staff all work together to create and sustain the teams that will carry out groundbreaking work both within the boundaries of traditional physics areas, as well as in emerging interdisciplinary ones. We look forward to the coming year with excitement. If you find yourself on campus, please drop by and say hello. We'd love to share our findings and ideas about particle physics, soft and condensed matter (including polymers and biological systems), galactic evolution, quantum computation, physics education, and the cosmos with you in person!



**Hugh Gallagher,**  
Department Chair

## Our Ever-Evolving Department

### Additions



**Taritree Wongjirad**

We are very pleased to welcome *Assistant Professor Taritree Wongjirad* to our department. Dr. Wongjirad received his Ph.D. in Physics from Duke University and was most recently at MIT where he was a Pappalardo postdoctoral fellow. He works in experimental neutrino physics on the MicroBooNE and DUNE experiments, and is an expert on both hardware development and analysis methods (in particular using advanced techniques from computer science).

We welcomed five new postdoctoral associates to Physics & Astronomy. *Ryan Cybulski* worked with the astronomy group last year. *Lucas Kocia* worked in quantum computing. *Federico Sforza* joined the high energy physics group. *McCullen Sandora* and *Masaki Yamada* joined the cosmology group.

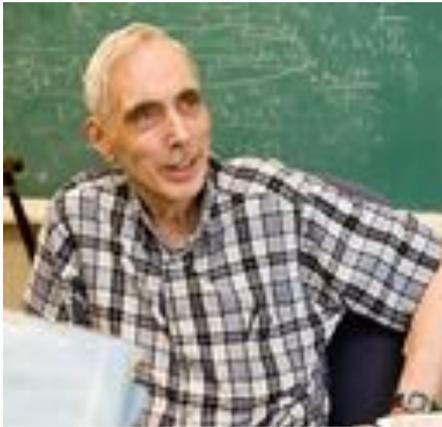
Three brand new members joined the Physics & Astronomy extended family this year. *Johanna Karouby* and her family welcomed *Hannah Wiegand* into the world on September 13, 2016. *Caroline Merighi* and her family welcomed *Nina Clare Healy* on April 5, 2017. *Ali Masoumi* and his family welcomed *Arghavan Masoumi* on June 19, 2017.



**Hannah (left), Nina (top), Arghavan (bottom)**

## Goodbyes

We sadly say goodbye to *Allen Everett* (1933-2016), who passed away in June 2016. Allen joined the Tufts Physics Department faculty in 1960, just after he completed a PhD in theoretical physics at Harvard.



**Allen Everett**

His early research was in the areas of nuclear and high energy physics. Along with Alex Vilenkin and Larry Ford, Allen founded the Tufts Institute of Cosmology, the first center in the United States devoted to theoretical cosmology. The Center has since achieved international prominence. Allen was also a dedicated teacher who cared deeply about the success of his students, and sought to give them an understanding of the key principles of physics. Allen's generosity to Tufts, Tufts students, and the Physics & Astronomy Department did not end with his retirement. In the past few years he made substantial financial donations to secure the future of the Institute of Cosmology and endow a room in the department's new home at 574 Boston Ave. With characteristic humility, Allen insisted that both of these contributions be in the name of his late colleague Allan Cormack.

We also will miss *Matteo Bonato*, *Joao Coehlo*, *Ryan Cybulski*, *Johanna Karouby*, *Ali Masoumi*, and *Evelin Meoni* who have moved on to other positions. We wish them all the best in their new roles!

## News

### **Tufts Professors Awarded \$1 Million Grant to Boost Diversity in Natural Sciences**

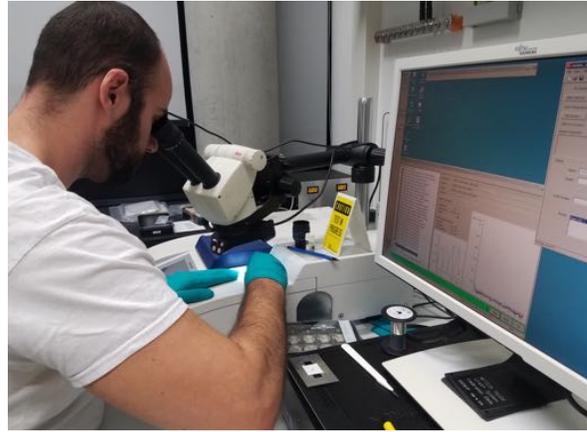
A group of faculty at Tufts University's School of Arts and Sciences has received a \$1 million grant from the Howard Hughes Medical Institute (HHMI) to broaden participation and cultivate the talents of undergraduate students of diverse backgrounds in the natural sciences. Known as the Listening Project, the five-year initiative aims to increase instructors' awareness of implicit and unconscious bias and support their efforts to elicit and cultivate the productive beginnings of scientific thought in all students. The program will provide science faculty and teaching assistants in introductory science courses with support to enhance their ability to elicit, recognize, interpret, and respond meaningfully to all students' thinking and reasoning regardless of their cultural background or prior preparation. Two faculty from the Physics & Astronomy department *Professor Roger Tobin* and *Professor David Hammer* are on the team leading the project. They are joined by Juliet Fuhrman, professor of immunology and infectious disease, Susan Koegel, senior lecturer of cell biology and immunology, and Donna Qualters, director of the Tufts Center for the Enhancement of Learning and Teaching.

### **New Department Website**

The department is pleased to announce the launch of our brand new website. We can now be found at: <http://as.tufts.edu/physics> and the old location will automatically bring you there. We hope that the new website will provide a more compelling platform to inform the outside world about the offerings of our department, serve as a recruitment tool and be more informative for department members, students, guests, and alumni. We welcome your feedback on things you'd like to see and any information you think is missing or difficult to find. We encourage faculty, students, and alumni to tell us about interesting news items such as awards, grants, high-impact publications, special programs, and other events. Creating the new website has been a tremendous amount of work, and we'd like to thank TTS, particularly *Sauyee Wong*, for their efforts. Tim would also like to highlight and thank *Caroline Merighi* for her remarkable work and dedication to seeing this project through, and *Geneviève Du Paul* for her photography.

### Thermal Analysis of Polymers in Germany

Over the past few years *Professor Peggy Cebe* has been collaborating with Professor Christoph Schick and his research group at the University of Rostock on the thermal analysis of polymers by fast differential scanning calorimetry (FSC). This past fall Professor Cebe's graduate students, *Nelaka Govinna* and *David Thomas*, accompanied her for two weeks to conduct experiments relevant to their own research projects. FSC allows for thermal measurements of samples at heating and cooling rates in excess of 4,000 K/s compared to the upper limit heating rate of 0.5 K/s accessible in conventional differential scanning calorimeters. Utilizing high rates allows for the study of materials which undergo thermal degradation near their melting points or have rapid phase change kinetics. Their work was focused on the study of polymer thin films and nanofibers suitable for applications ranging from tissue scaffolds to membranes for oil and water separation. Samples for the trip were prepared from both commercially available polymers as well as novel copolymers synthesized by our collaborators in Professor Asatekin's research group in the Chemical & Biological Engineering Department here at Tufts. The trip was highly productive with data being collected on a variety of polymers as well as the successful employment of our newly developed methodology to study nanofibers in a fast scanning calorimeter. Nelaka and Dave presented their results from these experiments at the March Meeting of the American Physical Society in New Orleans, Louisiana.



**Dave Thomas**

### Josh Cohen Presents at AVS

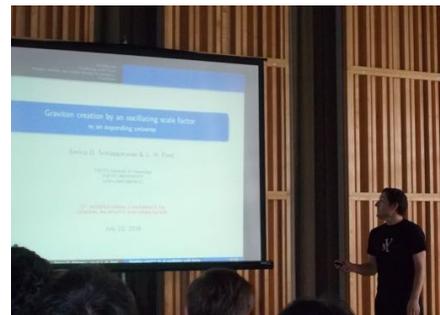


**Roger Tobin and Josh Cohen**

Graduate student *Josh Cohen* presented his work at the AVS International Symposium and Exhibition in Nashville, an annual meeting with several thousand attendees that focuses on cutting-edge research that takes place in a vacuum with an emphasis on materials, interfaces, and processing. Josh works with *Professor Roger Tobin*, and his research falls under the category of surface science; a field interested in how bulk physical properties are affected by changes that occur at the surface of a material. This is important as the addition of just a few atoms to the surface of a material can have large effects on its physical properties. Specifically, his research contributes to our understanding of how metal atoms deposited onto a metal substrate affect the substrate's resistivity by studying a special system where ordered islands of nickel grow on a thin gold substrate.

### Enrico Schiappacasse Speaks at Conferences

Graduate student *Enrico Schiappacasse* gave a talk entitled "Quantum fields in curved space-time, semiclassical gravity, quantum gravity phenomenology, and analog models" at the prestigious International Conference on General Relativity and Gravitation at Columbia University in New York in July 2016. Enrico also attended The Winter School's GGI Theoretical Lectures on the Theory of Fundamental Interactions offered by the Galileo Galilei Institute for Theoretical Physics in Florence, Italy in January 2017. He was also an invited speaker at the Fifth Annual Undergraduate Cosmology Workshop in July 2016, at MIT's Center for Theoretical Physics.



**Enrico Schiappacasse**

## Summer Intern Program

The annual summer intern program for deaf and hard of hearing students, "Polymers for Advanced Technologies 2017" conducted by *Professor Peggy Cebe's* research group was held from May 24 to June 30, 2017. The students presented their completed work on the project to the general public and they also made a poster highlighting their work, which is on display on the 4th floor hallway at 574 Boston Ave. The abstract for their work is as follows: Oil-water separation has many real world applications. It can be used in food preparation, fracking and water purification. In this project, polyvinylidene fluoride (PVDF), blended with zwitterionic co-polymers, PMMA-r-SBMA and PMMA-r-SB<sub>2</sub>VP was studied for oil-water filtration. Non woven fiber membranes of these materials were obtained by electrospinning polymer solutions at 20% w/v in N,N-dimethylacetamide and acetone (7/3 v/v) mixed solvent. Both copolymers could not form a completely homogenous solution at 80% mass of PVDF. In order to characterize the PVDF and copolymer fiber mats, they were tested with methods including X-ray, thermal analysis, Fourier transform infrared spectroscopy, and contact angle. Fiber structure was determined by scanning electron microscopy. High quality fibers with diameters around 100-200 microns were achieved. Addition of the copolymers makes the blend fibers slightly more hydrophilic. When PVDF/SBMA and PVDF/SB<sub>2</sub>VP blends crystallize, they display properties of both beta and gamma crystalline phases of PVDF, and the fibers become more wavy. These fibers will be tested for use as filtration or separation membranes for the provision of clean water.



**Summer Interns, Instructors, and Interpreters**

*Top:* Francine Arnold (ASL interpreter), Mark Riley (ASL interpreter), Nelaka Govinna (Graduate Student Course Instructor and Lab Teaching Assistant)  
*Middle:* Papatya Kaner (Dept. of Chemical and Biological Eng.), Peggy Cebe (Course Instructor)  
*Bottom (Interns):* Katherine Son (Rochester Institute of Technology), Cody Moers (Gallaudet Univ.), Davette Ceasar (Temple Univ.), Anita Dhungana (Rochester Institute of Technology)

## Ken Olum Gives Conference Talks and Visits High Schools

*Research Professor Ken Olum* attended the Gravitational Wave Physics and Astronomy Workshop in Hyannis, MA in June 2016 and spoke on cosmic strings as a source of gravitational waves. In August 2016 he attended the Foundational Questions Institute 5<sup>th</sup> International Conference "If a Tree Falls: The Physics of What Happens and Who Is Listening" in Banff, Alberta, and gave a "lightning talk." Ken also does outreach to high schools. Last spring he visited the Sage School in Foxborough, Massachusetts and Londonderry High School in Londonderry, New Hampshire. He spoke on the first observation of gravitational waves, which had just been announced, and reproduced the Cavendish experiment for the students.

## Three Physics & Astronomy Professors Awarded Tenure



Tim Atherton

Anna Sajina

Hugo Beauchemin

We congratulate *Associate Professors Tim Atherton, Hugo Beauchemin, and Anna Sajina* on being awarded tenure and promoted to the rank of Associate Professor this year. These decisions follow a rigorous year-long examination of their work by colleagues both within and outside the university and recognize their record of excellence and potential for future achievement.

## High School Students Visit Department

In May the "Cosmos Club" of North Andover High School visited the Physics & Astronomy department. *Research Professor Ken Olum* reproduced the Cavendish experiment and spoke on gravitational wave observation, *Professor Peggy Cebe* and *Professor Roger Tobin* showed off their labs, and *Professor Tony Mann* and his students showed off the high-energy physics control room.

## Eliopoulos Summer Scholars

The Steven J. Eliopoulos and Joyce J. Eliopoulos Summer Scholar Endowed Fund for Undergraduate Research in Physics and Astronomy was established to encourage undergraduate students to become involved in research projects and do senior theses. Two students recently received support from this fund to work on summer research projects.

In 2016, *Andrew Mascioli* worked with *Associate Professor Tim Atherton* on a project to understand how mixtures of spherical particles of different sizes pack onto a curved surface, an extension of a long-standing problem in Condensed Matter Physics. He found that varying the particle size changes the structure continuously from a crystalline structure to a glass. The work has just been published in the journal *Soft Matter*, and formed the basis of Andrew's senior thesis.

In 2017, *Sydney Holway* worked with *Associate Professor Tim Atherton* on a combined experimental and theoretical project in collaboration with Jeff Guasto's group in Mechanical Engineering. He was trying to simulate and image the process of "clogging" by which a fluid containing particles can foul a channel and obstruct further flow. Sydney will be continuing this project for this senior thesis.

## Faculty and Staff Awards

*Associate Professor Tim Atherton* was recently awarded the University-wide Recognition of Undergraduate Teaching Excellence (ROUTE) prize. This award is awarded annually to a junior faculty member of the Faculty of Arts, Sciences and Engineering who has displayed exceptional teaching and advising, concern for students' academic and personal growth, and the ability to convey passion and enthusiasm for his or her field of study. Atherton's citation singled out his creation of a project-based class on Computational Physics, use of an innovative "cyclic approach" to teaching introductory physics classes and outstanding mentoring of undergraduates.

Tim was also awarded a prestigious CAREER grant from the National Science Foundation. These are the National Science Foundation's most prestigious awards in support of early-career faculty who have the potential to serve as academic role models in research and education and to lead advances in the mission of their department or organization. He will use the award, "Jamming in Flexible Geometries- from Shape Sculpting to Shapeshifting" to advance our understanding of how ordered materials interact with curved geometries. The award also supports outreach and education efforts that are closely integrated with the research, including a new course on Computational Physics, links with Somerville High School and the participation of Deaf and Hard of Hearing students in *Professor Peggy Cebe's* existing summer internship program.

## Student Awards

Both undergraduate and graduate students in physics and astronomy continue to be recognized for their outstanding achievements in multiple areas, including academics, athletics, teaching, and service. We are proud to share that the following students in our department have received awards this year.

*Sarah Elghor* and *Andrew Mascioli* both received the N. Hobbs Knight Prize Scholarship in Physics, recognizing outstanding ability in theoretical and experimental physics.

*Justin Hudson* received a summer fellowship from the Massachusetts Space Grant Consortium.

*Anastasia Korolov* received the Amos Emerson Dolbear Scholarship, awarded to a senior who has shown promise in the field of either physics or electrical engineering.

*John Merfeld* received the Ellen C. Myers Memorial Prize, awarded to a junior or senior who has shown character, diligence, and perseverance in achieving high scholarship standards in the face of adverse circumstances while working toward a bachelor's degree at Tufts University.

*Jed McKinney* received the Class of 1911 Prize Scholarship, honoring seniors of engaging personality who, from matriculation as freshmen to their senior year, have made the most progress as measured both by academic record and by successful participation in extracurricular activities of enduring worth.

*Freddy Saia* received the Audrey Butvay Gruss Science Award, recognizing outstanding academic work in any of the sciences by a student who is a scholarship recipient.



**Sample Prize Winners with President Tony Monaco and Gary Goldstein**

*Rayleigh Parker, Yonatan Segev, and Hermes Suen.*

*Zack Pagel* received the Benjamin G. Brown Scholarship, awarded to seniors who have shown promise in scientific research in fields other than chemistry.

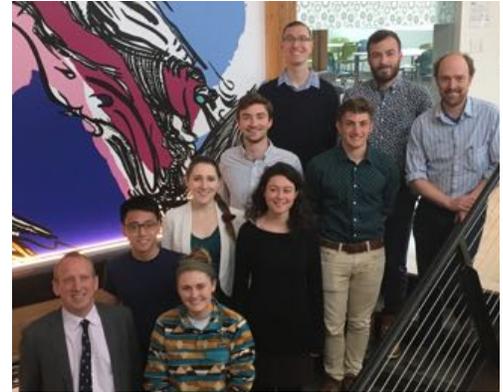
*Jeremy Wachter* received the Robert P. Guertin Student Leadership Award, given by the Graduate School of Arts and Sciences to recognize outstanding leadership.

This year's recipients of the Howard Sample Prize Scholarship in Physics for outstanding performance in Physics 11 and Physics 12 are *Mathias Barth, Matthew Chang, Xizhao Chen, Xinzhi Guo, Elias Marcopoulos, Ely Novakoski,*

## Sigma Pi Sigma

Membership in Sigma Pi Sigma, the Physics Honor Society, acknowledges outstanding scholarship in undergraduate physics for junior and senior physics and astronomy majors.

Congratulations to all our 2017 nominees: *Cassidy Driscoll, Lisa Fantini, Sydney Holway, Taiyi Hua, Jingcheng Huang, Thomas Keller, Justin Lee, James McDowell, John McGowan, Jed McKinney, Peter Riley, William Simon, Daniel Spencer, Emily Van Milligen, and Glenn VanWinkle.* They join *Tyler Chen, Erin Kado-Fong, Anastasia Korolov, Andrew Mascioli, Zack Pagel, and Freddy Saia,* who were inducted last year.



**2017 Sigma Pi Sigma Ceremony**

## Senior Theses

Four seniors completed and defended senior theses this year. We are pleased to recognize these students for taking on independent research projects.

- *Anastasia Korolov*, Advisor: Larry Ford  
Thesis: "An Investigation of Negative Energy Densities in Quantum Field Theory: Diagonalization Method and Worked Examples"
- *Andrew Mascioli*, Advisor: Tim Atherton  
Thesis: "Defect Structure and Percolation in Bidispersed Sphere Packings"
- *Jed McKinney*, Advisor: Anna Sajina  
Thesis: "Evidence for SED Uniformity in 1.1 mm Selected Dusty, Star-Forming Galaxies"
- *Zack Pagel*, Advisor: Peggy Cebe  
Thesis: "Experimentally Controlling Director Fields in Nematic Liquid Crystals"

## 2016 Summer Scholars

We are proud to have had three undergraduate students selected to be part of the Tufts Summer Scholars program in 2016, which supports undergraduate research. *Peter Riley* worked with *Associate Professor Cristian Staii*. *Erin Kado-Fong* worked with *Associate Professor Danilo Marchesini*. *Andrew Mascioli* worked with *Assistant Professor Tim Atherton*. In addition, *Kalina Nedkova* was selected as a Graduate Summer Scholar and worked with *Associate Professor Danilo Marchesini*.

## Alumni Profiles



**Spencer Smith, G'12**

### **Current occupation:**

I am an assistant professor of physics at Mount Holyoke College. In this perfect job I get to share my enthusiasm for the beauty of physics with students, both in the classroom and my computational lab. My research lies at the intersection of fluid dynamics, nonlinear systems & chaos, topology, and numerical methods.

### **How do you use your physics background and training in your line of work?**

As a professor in a liberal arts college physics department, I use my physics background constantly: My teaching is spread across the entire curriculum, from mechanics and E&M to quantum and statistical mechanics. I mentor undergraduates, and help guide them through a physics major. In my research group, we computationally investigate the role of topological chaos in fluid mixing. I go to conferences, give talks, and write research papers. Through all of this, I never lose sight of the fact that I get paid to do physics, think about physics, and teach physics! None of this would be possible without the formative years I spent at Tufts, developing my identity as a physicist.

### **Did the Tufts physics department prepare you for your current career path?**

It absolutely did! I could certainly talk at length about the great classes, wonderful professors, engaging fellow graduate students, and interesting research opportunities, but I'll highlight one particularly useful aspect of my time in the Tufts physics department: teaching experience. From the very beginning, when I was a lab and recitation TA, I felt that there was a strong emphasis on good teaching pedagogy. This was reinforced by the graduate institute for teaching (GIFT) summer program, where I was introduced to many core teaching ideas and was able to later co-teach a class with a faculty mentor. I had ample opportunity to refine my abilities by teaching multiple summer school physics classes and participating many times in the weekly journal club. All of this experience was invaluable when I later started my career as a visiting professor, teaching 5 classes a year.

### **What is your favorite memory of your time in the Tufts physics department?**

This is somewhat unfair, since I have a lot of great memories of important events: defending my dissertation, getting a stroke of inspiration for my research, having my enormous body of code compile and execute correctly! Not to mention all the engaging conversations I had with my cohort and professors. So, I'll just relate a less-important memory that reminds me of some of the fun I had with fellow grad students. The last spring I was at Tufts, a pair of hawks built a nest on the fire escape near my office and laid a few eggs. To procrastinate, some of us grad students had a contest to figure out the best physics related names for the baby hawks. Of course some of the usual suspects came up: Gauss, Noether, Einstein, as well as names more tied to some of our current research: Thurston, Kaluza & Klein, or Kolmogorov. We needed a name soon, as the eggs were due to hatch, so we asked our department administrator to help choose between the options. She looked at us, rather bemused, and said: "why don't you name one of them Stephen ... Stephen Hawking." Thanks to little Stephen, I got weeks of needed distraction while I was in the final stages of writing up my dissertation.

**Ben Preis, A'15**

**Current occupation:**

I currently work for a lobbying and consulting firm in Washington, DC that helps universities and research associations navigate the federal government. I work specifically with faculty in engineering and physical sciences, covering issues relating to the Department of Energy, National Science Foundation, National Institute of Standards and Technology, among others.



**How do you use your physics background and training in your line of work?**

Though I don't use the equations or theories I learned in physics on a regular basis, the broad base of knowledge I acquired in physics at Tufts has been invaluable. When interacting with faculty members in engineering or the physical sciences, having a solid foundation in physics allows me to better understand their interests and scope of research. Instead of being removed from my physics classes, my job allows me to build on my base of knowledge and expand it in a variety of directions, from mechanical engineering to materials science, albeit in a fairly informal setting. Furthermore, the thought processes of physics—breaking problems down, carefully considering alternate paths and explanations—makes me a better thinker on the job.

**Did the Tufts physics department prepare you for your current career path?**

The physics department did a superb job of preparing me for a field in which clear communication of science is vital. The many group projects and presentations during the higher-level physics courses taught me how to explain science in a non-technical manner in a way that nonetheless preserves the science. At work, I often speak with a non-technical audience, and being able to absorb technical research and then speak with policymakers in lay terms is one of the most important part of my job.

**What is your favorite memory of your time in the Tufts physics department?**

During the Physics 13 Course taught by Timothy Atherton, we had a group project to explain a topic from class (special relativity) in a video format at the 8<sup>th</sup> grade level. A group of us got together, wrote a script, and produced a four-minute video. The project was so unusual for a physics class—and an absolute blast. It's still available on YouTube! This video actually helped me get an internship in science communication, leading me on my current path. Had the physics department at Tufts not had such a strong emphasis on improving undergraduate pedagogy, I'm not sure I would have had this experience or many others that made my time in the department so beneficial and unique.

**Congratulations!**

The department would like to congratulate all our 2017 graduates. We are proud of your work at Tufts and look forward to the great things in your future.

**Bachelor of Science Degrees**

*Sean Chapman*, B.S.E.P., Engineering Physics

*Tyler Chen*, B.S., Physics/Mathematics

*Sarah Elghor*, B.S., Physics

*David Heim*, B.S., Physics

*Taiyi Hua*, B.A., Physics/International Relations

*Jingcheng Huang*, B.S., Physics/Math/Chemistry

*Qais Iqbal*, B.S., Physics

*Erin Kado-Fong*, B.S., Astrophysics

*Alexander Kaplan*, B.S., Chemical Physics

*Anastasia Korolov*, B.S., Physics/Mathematics

*Justin Lee*, B.S., Physics/Computer Science

*Anna Lei*, B.S., Astrophysics

*Andrew Mascioli*, B.S., Physics/Mathematics

*James McDowell*, B.S., Astrophysics/Computer Science

*Jed McKinney*, B.S., Astrophysics

*John Merfeld*, B.S., Physics

*Jared Moskowitz*, B.S.C.S., Computer Science/Physics

*Zack Pagel*, B.S.E.S., Engineering/Physics/Mathematics

*Morgan Rivers*, B.S.E.P., Engineering Physics

*Freddy Saia*, B.S., Physics/Mathematics

### Doctoral Degrees

- *Ozgur Altinok*, Advisor: Tony Mann  
Thesis: “Measurement of Muon Neutrino Charge Current Single  $\pi^0$  Production on Hydrocarbon using MINERvA”
- *Vesal Dini*, Advisor: David Hammer  
Thesis: “Investigating Learner’s Epistemological Framings of Quantum Mechanics”
- *Cemile Marsan*, Advisor: Danilo Marchesini  
Thesis: “Massive Galaxies in the Early Universe: A Detailed Spectroscopic and Structural Investigation”
- *Jonathon Poage*, Advisor: Gary Goldstein  
Thesis: “Modeling the Structure of the Proton: Deeply Virtual Compton Scattering and Generalized Parton Distributions”
- *Marc Simon*, Advisor: Cristian Staii  
Thesis: “Mechanical and contact guidance properties of live cortical neurons in vitro measured via atomic force and fluorescent microscopy”
- *David Thomas*, Advisor: Peggy Cebe  
Thesis: “Investigations into Crystallization and Fundamental Thermal Properties of Semicrystalline Polymers by Conventional and Fast Scanning Calorimetry”
- *Jeremy Wachter*, Advisor: Ken Olum  
Thesis: “Analytic Backreaction on Cosmic Strings”

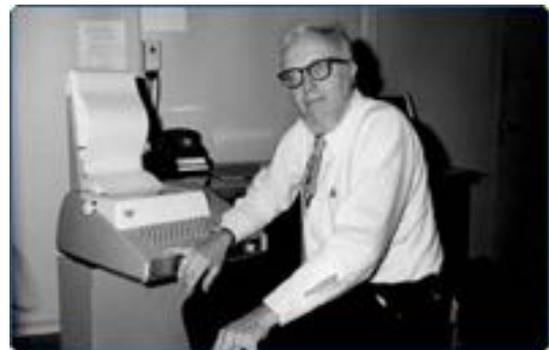


**May 2017 Doctoral Hooding Ceremony**

Jeremy Wachter, Peggy Cebe, Yazhe Zhu, Ozgur Altinok, David Hammer, Vesal Dini, Chris Burke

### Tufts Physics Tidbit

In 1962, the Physics department moved into newly renovated Robinson Hall. Recent hire Richard “Rick” Milburn was surprised to find an old box on his desk labeled “gelatin dynamite.” It turns out that the fourth floor attic in Robinson Hall contained several abandoned containers of explosives, including dynamite, TNT, and tetryl booster left behind by previous inhabitants. Fortunately, Rick and his colleagues quickly arranged for the explosives to be safely disposed of before anyone was hurt!



**Rick Milburn, circa 1960**

Read the full story at: <http://tuftsjournal.tufts.edu/archive/2008/january/features/dynamite.shtml>

**We welcome your news, stories, and ideas for our future newsletters.** To contact us or to be added to our mailing list, please email newsletter editor: [Caroline.Merighi@tufts.edu](mailto:Caroline.Merighi@tufts.edu). We would especially like to hear from recent graduates of the program (undergraduate or graduate) about what you’re doing. You could be our next profile!

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