

# NOTES

## FROM DEAN CLARK

June 20, 2016

Dear members of the Hajim School community:

Optics PhD student **Joseph Choi** and his advisor, Professor of Physics John Howell, continue to come up with exciting new cloaking techniques. In a recent paper in *Optica*, they **describe using flat screen displays to extend the range of angles that can be hidden from view**, so that a car, for example, could be made invisible to viewers from multiple positions, not just to a person at a predetermined position. You can read more about their fascinating work [here](#).

Many of our students come here eager to gain research experience. Several of our undergraduates are doing just that this summer. For example, 27 of them are participating in the [Xerox Engineering Research Fellows program](#), administered by the David T. Kearns Center for Leadership and Diversity in collaboration with the Hajim School and Xerox Corp., which provides the funding. This program gives students an **intensive lab-based mentored research experience the summer before their junior or senior year**, with many continuing their research into the school year as a faculty-advised independent study course. (Read more [here](#).) I am especially grateful to the faculty members who volunteer to participate in this program.

This year's participants and their faculty mentors are: **Nancy Aguilera** (Assoc. Prof. Andrew Berger of Optics), **Dyreek Brathwaite** (Prof. Sheryl Gracewski of Mechanical Engineering), **Ariana Cervantes** (Prof. Gaurav Sharma of Electrical and Computer Engineering), **Rony Colon** (Asst. Prof. Douglas Kelley of Mechanical Engineering); **Kwasi Nimako** (Prof. Wendi Heinzelman of Electrical and Computer Engineering), **Luis Nova** (Asst. Prof. Ehsan Hoque of Computer Science), **Erik Nunez** (Prof. Wendi Heinzelman of Electrical and Computer Engineering), **Oscar Ta** (Duncan Moore, the Rudolf and Hilda Kingslake Professor of Optical Engineering Science), **Jack Valinsky** (Asst. Prof. Thomas Howard of Electrical and Computer Engineering), **Sue Zhang** (Assoc. Prof. Danielle Benoit of Biomedical Engineering), **Harel Biggie** (Asst. Prof. Thomas Howard of Electrical and Computer Engineering), **Matthew Dombroski** (Prof. Gaurav Sharma of Electrical and Computer Engineering), **Rannulu Fonseka** (Prof. Sheryl Gracewski of Mechanical Engineering), and **Rebecca Gillie** (Asst. Prof. Jong Hoon-Nam of Mechanical Engineering).

Also **Stephanie Kamau** (Asst. Prof. Mark Buckley of Biomedical Engineering), **Harrah Newman** (Asst. Prof. Mark Buckley of Biomedical Engineering), **Jordan Rabinowitz** (Assoc. Prof. Andrew Berger of Optics), **Amanda Smith** (Prof. Diane Dalecki of Biomedical Engineering), **James Tobias** (Prof. Stephen Burns of Mechanical Engineering), **Karan Vombatkere** (Asst. Prof. Zhiyao Duan of Electrical and Computer Engineering), **Haitong Wang** (Asst. Prof. Regine Choe of Biomedical Engineering), **Jinge Wang** (Asst. Prof. Douglas Kelley of Mechanical Engineering), **Michaela Wentz** (Asst. Prof. Hitomi Mukaibo of Chemical Engineering), **Catherine Yip** (Prof. Renato Perucchio of Mechanical Engineering), **Yiheng Zhou** (Assoc. Prof. Jiebo Luo of Computer Science), **Breanna O'Reilly** (Assoc. Prof. Catherine Kuo of Biomedical Engineering), and **Zhaoyu Nie** (Nick Vamivakas, Assistant Professor of Quantum Optics and Quantum Physics).

Nine undergraduates are gaining similar experience in the Department of Chemical Engineering's [Eisenberg Summer Internship Program](#). Funded with a gift from the late Richard Eisenberg, a distinguished professor of metallurgical engineering, this also gives undergraduates an opportunity to do research one on one with faculty members, usually during the summer before their junior or senior year. Read more [here](#). This summer's participants and their faculty mentors are: **Rui Gao** '18 (Prof. Ching Tang), **Melissa Becker** '17 (Prof. David Wu), **Yongli Lu** '18 (Prof. Lewis Rothberg), **Christina Engler** '17 (Asst. Prof. Wyatt Tenhaeff), **Anne Maguire** '17 (Prof. Shaw Chen), **Logan Williamson** '17 (Prof. Mitch Anthamatten), **Dominick Salerno** '17 (Assoc. Prof. David Foster), **Adam Rosenstein** '17 (Asst. Prof. Andrew White) and **Robbie Harding** '16 (Asst. Prof. Alexander Shestopalov).

As always, keep me updated and have a great week!

Robert L. Clark  
Professor and Dean



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