

# PHUOC TIEN TRAN

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## Education

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2018-present **Harvard University**, Cambridge, MA

Graduate Student in the Molecules, Cells and Organisms program

2011-2015 **Carleton College**, Northfield, MN

Bachelor of Arts with Honors in Biology, *magna cum laude* (June 2015)

- Senior Integrative Exercise title: Connecting Genotypes and Immune Regulations through the Licensing Effect of Natural Killer Cells

## Research Experiences

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7/2015-5/2018 **Research Associate**, University of California San Diego, La Jolla, CA

Principal Investigator: Dr. Samara Reck-Peterson

- Identification and characterization of the protein interactomes of microtubule-based motors and their regulators using proximity-dependent biotinylation and mass spectrometry.
- Investigation of bi-directional microtubule based motility using dynein/dynactin/Hook3/kinesin complexes and single-molecule motility assays.
- Investigation of the mechanism of dynein regulation by Lis1.
- As lab manager, perform lab support tasks such as maintaining space organization and chore responsibilities, coordinating equipment maintenance and routine lab safety inspection, and assisting with work direction of undergraduate lab employees

6-8/2014 **Summer Research**, UT MD Anderson Cancer Center, Houston, TX

Principal Investigator: Dr. Dean Lee (*now at Nationwide Children's Hospital, Columbus, OH*)

- Investigated the role of JAK-STAT3 signaling in human natural killer cell functions using cytotoxicity assay and flow cytometry.

## Publications

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1. DeSantis ME\*, Cianfrocco MA\*, Htet ZM\*, Tran PT, Reck-Peterson SL#, and Leschziner AE#. (2017) Lis1 has two opposing modes of regulating cytoplasmic dynein. *Cell* 170: 1197-1208.
2. Redwine WB\*, DeSantis, ME\*, Hollyer I, Htet ZM, Tran PT, Swanson SK, Florens L, Washburn MP, and Reck-Peterson SL. (2017) The human cytoplasmic dynein interactome reveals novel activators of motility. *eLife*: 6:e28257.
3. Walser-Kuntz D, Matsuda E, Tran P, Salato J, and Friedow J. 2015. Celiac and Me. *Community Engaged Scholarship for Health (CES4Health)*; <http://www.ces4health.info/find-products/view-product.aspx?code=7KMLZFYS>

\* Denotes equal contribution. # Denotes co-corresponding authors.

## Selected Honors and Awards

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2015	Sigma Xi
2015	Phi Beta Kappa
2014	Patricia V. Damon Scholarship (Carleton College)
2011-2015	Starr Scholarship (provided up to full comprehensive fee to study at Carleton College)

## Selected Leadership and Involvements

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2016-Jun 2017 **Volunteer Tide Pool Interpreter**, Birch Aquarium, La Jolla, CA

- Guided visitors to touch and observe the animals in the tide pool exhibits
- Engaged visitors in conversations about marine biology and conservation

Jan-Jun 2015 **Teaching Assistant**, Genetics Lab, Carleton College

2014-Jun 2015 **Curriculum Developer**, Celiac and Me, Carleton College

- Developed scientifically accurate teaching materials for Celiac and Me, a website that educates the public about celiac disease, in collaboration with students in Carleton Immunology courses and partners in celiac disease communities.

2013-2014 **Peer Leader**, Office of Intercultural and International Life, Carleton College

- Mentored five first-year students and help them make a successful transition to college
- Planned events and facilitate dialogues on campus on topics of identity and diversity