“I think [One Health] is completely relevant to what we have been discussing. I have been indirectly working on it for years, but you have alerted me to a name for it…”

My parasitology professor, Dr. Michelow, said these words in introduction, before he turned over the last 5 minutes of his lecture to me, a first-year medical student—to talk about One Health.

This was, without doubt, one of the most exhilarating moments of my year. I felt I was taking a concrete step towards raising awareness of One Health. In fact, after I had introduced my classmates to One Health, and its relevance to our future clinical practice, Dr. Michelow assured me that he would add slides about One Health to his lecture next year.

Many physicians and medical students have not considered how human health is intrinsically linked to a larger ecosystem, which includes animals and environmental factors. Or, like my professor, they do not have a framework to contextualize those interconnections. Therefore, I believe there is ample opportunity for human health professionals to be educated about One Health issues. I am strongly compelled by my experiences both in public health and human medicine to advocate for One Health.

As a medical student representative to the One Health Commission (OHC) Board of Directors, I would propose a three-pronged strategy of education, professional development and legislative advocacy to achieve our goal of promoting One Health and ultimately have a positive impact on animal, human and environmental health.

I. Education
To my knowledge, there are no medical school One Health interest groups. I was inspired at the Students for One Health meeting, and plan to start one at Brown. There will be many opportunities to open chapters at other medical schools.

Medical students can take electives during their third and fourth years. The OHC could compile a list of medical and veterinary clinicians, environmental scientists, other One Health allies, and organizations such as EcoHealth that are willing to precept rotations for medical and/or veterinary students, so students can gain insight into the work of One Health practitioners early on in their career.

Joint med/vet clinics or med/vet/ecology health mission trips (local or domestic) would be a concrete way to live out the mission of promoting interdisciplinary work.

II. Professional Development
The OHC Board could keep an updated list of One Health-relevant conferences –One Health Congress, pertinent AMA, AVMA or environmental health conferences or talks, to cultivate a collegial environment, promote interdisciplinary collaborations and break down some of the discipline-specific walls.

Students would benefit greatly from receiving mentorship from health professionals and academics who are One Health practitioners and leaders. The OHC could spearhead a mentor-matching program that would connect students with current leaders in the One Health field, which could also yield fruitful research collaborations.
The OHC Board could compile a list of grants that would support One Health work (research, clinical) both for students and professionals, which would further advance the evidence-based science of One Health. Increasing funding to One Health research may eventually lead to the creation of positions for faculty at universities, medical and veterinary schools to engage in One Health.

III. Legislative advocacy
I understand that this is a proposed OHC action team, and I strongly believe that identifying and advocating for legislative initiatives that impact One Health issues is one of the most powerful ways to publicize the importance of One Health to all communities and have great impact on environment conservation efforts, antibiotic resistance and many other issues.

I am thrilled by the immense opportunities to promote One Health. As a student representative to the OHC Board of Directors, I would be empowered to leverage even more resources to build interdisciplinary coalitions to improve the health of our environment, animal and human populations.
ALICE HUI FAY TIN, MPH
32 W Cushing St | Providence RI 02906 | (617) 833-1318 | Alice_Tin@brown.edu

EDUCATION

Warren Alpert Medical School at Brown University
Doctor of Medicine
Providence, RI
Expected May 2018

New York University
Post Baccalaureate Pre-Health Certificate Program (GPA: 3.88/4.00)
New York, NY
May 2013

Tufts University School of Medicine
Master of Public Health (GPA: 3.94/4.00)
Boston, MA
August 2011

Concentration: Epidemiology/Biostatistics
Coursework Highlights: One Health Seminar, Infectious Disease Epidemiology

Tufts University
Bachelor of Arts, cum laude, Honors Civicus (GPA: 3.55/4.00)
Medford, MA
May 2010

Double Major: Community Health (GPA: 3.97/4.00) and History (GPA: 3.63/4.00)

Coursework Highlights: Intro to GIS

ONE HEALTH ACTIVITIES

American Medical Association – Medical Student Section Region 7 Meeting
Presenter
Providence, RI
February 2015

Invited 3 Tufts veterinary students to co-host an interactive workshop to introduce One Health to 18 medical student conference participants. This marked the first time that veterinary students attended an AMA student meeting.

Tufts University, Initiative for the Forecasting & Modeling of Infectious Diseases
Co-investigator
Boston, MA/Managua, Nicaragua
April 2011 – October 2012

Collaborated with the Nicaragua Research Center for Aquatic Resources at the National Autonomous University of Nicaragua (CIRA/UNAN) on a pilot study on basic sanitation and the bioremediation of wastes to improve water quality and health

- Designed research methodology; created, pilot tested and evaluated an IRB-approved survey in 5 communities (55 surveys)
- Conducted data entry and evaluated 60 health census records (188 people) from the community of Ciudadela San Martín
- Used ArcGIS and Surfer to create maps with GPS-referenced community infrastructure and pumps
- Authored a technical report and developed materials for community health education.

Relevant Conferences & Meetings and Courses:

RESEARCH EXPERIENCE

Charles B. Wang Community Health Center
Research intern
New York, NY
October 2011 – May 2013

- Conducted data analysis, designed and presented posters on antiviral therapy for pregnant women with chronic hepatitis B and CBWCHC’s hepatitis B care management program at two conferences
- Wrote five vaccine-failure care studies among infants with mothers infected with hepatitis B

Tufts University School of Medicine, Department of Public Health and Community Medicine
Student Researcher
Boston, MA
December 2008 – May 2011

- Examined the validity of the hygiene hypothesis to the incidence of pediatric asthma among Boston’s Chinese population
- Administered study survey to patients in English, Mandarin and Cantonese
- Managed and entered data and coordinated other student researchers; wrote sections of papers for publication

Tufts University School of Medicine in Collaboration with the Taipei Medical University (TMU)
Researcher
Taiwan, R.O.C.
February 2010 – November 2010

- Evaluated the best practices of the 1997 Taiwan health reform and distilled lessons for the US healthcare reform
- Designed interview protocol, developed an IRB-approved research methodology & conducted key informant interviews in English and Mandarin

CARE International
Intern – Office of the National Coordinator of Health
Estelí, Nicaragua
July – September 2009

- Organized a 6-day conference on emergency response planning for Ministry of Health authorities and NGO personnel in collaboration with the U.S. Center for Disease Control
- Provided administrative support and used GIS to create community risk and resource maps for the Cross-border Influenza Epidemiological Surveillance Project in Guatemala, El Salvador, Honduras and Nicaragua
- Compiled an 8-month progress report of two CARE projects in Spanish for internal review and funders.

Harvard Medical School, Department of Cell Biology
Basic Science Partnership Fellow
Boston, MA
June – August 2006

- Used immunofluorescence and cultured monoclonal antibodies to study the Hedgehog Signaling Pathway
### PUBLICATIONS & POSTER PRESENTATIONS


### ENTREPRENEURIAL AND SOCIAL RESPONSIBILITY EXPERIENCE

<table>
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<tr>
<th>Open Style Lab</th>
<th>Boston, MA</th>
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<tbody>
<tr>
<td>Co-founder &amp; Director</td>
<td>April 2013 - present</td>
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Open Style Lab (OSL, www.openstylelab.org) is a non-profit dedicated to making beauty accessible for people of all abilities. Our flagship summer program is hosted at MIT, where over 10 weeks, we team up engineering, design and occupational therapy students to create functional and stylistic apparel for and with clients with disabilities, including paraplegia, amputations and those diagnosed with autism and arthritis. OSL commercialized their first retail product, a rain jacket with a waterproof lap flap inspired by wheelchair users but designed for use by all.

**Stan Tran for Congress**

*Providence, RI*

**Campaign Manager**

May – September 2014

Helped strategize, managed volunteers, edited op-eds, organized a fundraiser, ran social media campaigns for Stanford Tran’s bid for Congress in the 2014 mid-term elections in Rhode Island.

**Immigrant Service Providers Group, Tufts University Tisch Scholars Program**

*Somerville, MA*

**Intern**

September 2007 – August 2011

- Assisted in the creation of an interpreter training program for bilingual high school students (LIPS)
- Supervised and coordinated a flu vaccine clinic and immigrant health fair (300 participants); engaged other organizations to expand the breadth of services offered at the health fair (dental and eye screening, physical therapy)

**The Welcome Project**, the Liaison Interpreters Program of Somerville (LIPS)

*Somerville, MA*

**Boston Schweitzer Fellow**

May 2010 – May 2011

- Created and ran a monthly discussion group to aid immigrant teens maintain fluency in their ethnic language

### CLINICAL & TEACHING EXPERIENCE

**Karen Kuo, MD, CWS**

*New York, NY*

**Medical Transcriptionist**

September 2012 – May 2013

- Documented weekly progress of wounds and treatment plans for 50 nursing home patients, served as Spanish interpreter

**New York University – University Learning Center**

*New York, NY*

**Learning Assistant - College Reading & Learning Association certified tutor**

September 2012 – May 2013

- Led a weekly 1-hour lecture-style review session for the introductory biology class
- Prepared problem sets and lead working group sessions for the general chemistry course

**Tufts University Community Health Program**

*Medford, MA*

**Graduate Teaching Assistant**

September 2010 – May 2011

- Taught two recitations per semester (total 138 students) to supplement lectures; graded papers and exams

**Las Salinas Government Health Clinic**

*Las Salinas, Nicaragua*

**Clinical Intern**

May – July 2009

- Organized and ran health education workshops for pregnant women and created an emergency transportation fund in five rural communities. Worked with the Ministry of Health to bring gynecologists to the community every two months
- Served as Spanish-English interpreter for the Ministry of Health during a local A H1N1 outbreak

### SKILLS

Languages: Chinese (Mandarin, Cantonese; Native speaking, writing, reading); Spanish (Advanced)

Statistical/mapping programs: SPSS, SAS, GIS, Surfer

### SELECTED HONORS AND LEADERSHIP

- Organizing Committee for the Alpert Medical School Ceremony of Gratitude for Anatomical Gift Donors
- Elected to Delta Omega, Public Health Honorary Society (2011)
- Albert Schweitzer Foundation Boston Fellow (2010-2011)
- Presidential Award for Citizenship and Public Service (2010)
- Tufts University Alumni Association Senior Award (2010)
- Community Health Department Seymour S. Bellin Research Fund Award (2010)
- Anne E. Borghesani Memorial Prize (2009)
- The Empower Program for Social Entrepreneurship Fellow (2009)