

TINA KIM (CHANYONG KIM)

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EDUCATION

NEW YORK UNIVERSITY – Abu Dhabi, UAE

Class of 2018

Bachelor of Science

- Major: Biology (GPA: 3.5/4.0)

TECHNICAL SKILLS

GENERAL MOLECULAR

Fluorescent assay TUNEL apoptosis detection, live EdU pulse, pulse-chase
Microscopy Epifluorescence and confocal, live and fixed imaging (upright and inverted, Leica SP8, Zeiss LSM 710), preparing microscopy slides, image processing software (Zeiss Zen, Leica Las X, Imaris, ImageJ)

ORGANISM-SPECIFIC

Zebrafish Full husbandry and manipulation: feeding, brine shrimp decapsulation, mating, collecting eggs
 Genotyping: gDNA extraction and hotshot, fin clipping, PCR, gel electrophoresis
 Miscellaneous: microinjecting, dissecting, live embedding in agarose, cryosectioning

E. coli Transformation, primer design using BLAST, plasmid restriction and ligation, DNA extraction, column chromatography, NanoDrop quantification, SDS-page

WORK EXPERIENCE

NYU ABU DHABI – Abu Dhabi, UAE

May 2018 –

Interim Fish Facility Manager; Research Assistant

- Elaborating senior thesis, working towards a full figure in publication
- Maintained water parameters, prepared feed, managed Filemaker Pro database of fish lines, and liaised with vendors and maintenance groups to regenerate lines and maintain the Sadler Lab fish colony

NYU ABU DHABI – Abu Dhabi, UAE

August 2016 – April 2018

Capstone Research Project; Sadler Lab

- Wrote grant-style proposal to address gaps in literature, designed and executed independent research project for Senior thesis
- Thesis: *Investigating divergent cell cycle fates of Uhrf1 deficient embryonic zebrafish hepatocytes*

MARINE BIOLOGICAL LABORATORY – Woods Hole, MA, USA

July – August 2017

Undergraduate Researcher in Sadler Lab

- Led research project related to senior thesis with focus on intensive raw data analysis using ImageJ and Excel
 - Collaborated with PIs to create new protocols in the wet lab (short EdU pulse with varied washout times)
 - Presented findings at a live-streamed symposium for biologists, including PIs

ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI – New York, NY, USA

January – June 2017

Research Assistant in Chu Lab

- Learned zebrafish wet lab techniques and assisted in a project quantifying apoptosis in globally DNA hypomethylated embryonic zebrafish
 - Utilized fluorescence microscopy and Leica software for analysis

NYU TANDON SCHOOL OF ENGINEERING – Brooklyn, NY, USA

June – August 2016

Summer Undergraduate Researcher in Seidenstein Lab

- Assisted in a computational neuroscience lab utilizing a Python-based program, NEURON. Selected through the Tandon summer undergraduate program
- Created models for demonstration using CAD program and 3D printing

IGEM TEAM NYUAD – Abu Dhabi, UAE

May – October 2015

Bioengineer

- Designed and developed a low-cost, self-sustainable contraption using *E. coli* to attract and digest mosquitoes using bioengineering techniques, submitting to the iGEM competition at MIT
- Won Bronze medal, featured in UAE's *The National*

EXTRACURRICULAR ACTIVITIES

RETHINK PLASTIC CAMPAIGN

September 2018

Volunteer

- Surveyed campaign visitors and raised awareness about consequences of plastic wastes on marine wildlife

SAADIYAT ISLAND TURTLE PATROL

May- July 2018

Volunteer

- Searched for nests of the endangered hawksbill turtle before sunrise, to keep records of nest and turtle sightings and to reorient hatchlings towards the beach and away from distracting traffic lights

PUBLIC HEALTH THINK TANK

November 3-4, 2017

Delegate

- Collaborated with team of 5 to come up with an innovative solution to public health issue specific to the UAE
- Presented findings in front of judge panel including senior health officers from Ministry of Health

WOMEN'S MENTORSHIP NETWORK

AY 2017- 2018

Mentee

- Participated as a mentee in building a professional women's network in Abu Dhabi

SKILLS & INTERESTS

Languages

Fluent: English, Korean; Conversational: Chinese, Japanese; Elementary: French, Arabic

Software

MS-Office, R, ImageJ, Fiji, 123d Design, Prism, LaTeX

Athletics

U-17 national league, lacrosse