# Yen-Chung Chen

PHD CANDIDATE

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### **Education**

**New York University** 

New York, NY, U.S.A.

DOCTOR OF PHILOSOPHY: BIOLOGY, GPA: 4.0/4.0

Sep. 2018 - Present

- Henry M. MacKracken Fellow
- NYSTEM Predoctoral Fellow

#### **National Taiwan University**

Taipei, Taiwan

Sep. 2007 - Jun. 2014

DOCTOR OF MEDICINE, GPA: 3.45/4.0, GRE: V160/Q170/AW4.5

## Research Experience \_

### Dr. Claude Desplan Lab, New York University

NY, USA

PHD CANDIDATE

June 2019 - Current

• Molecular logic of neuronal specification in the fly visual system

### Dr. Jun-An Chen Lab, Institute of Molecular Biology, Academia Sinica

Taipei, Taiwan

RESEARCH ASSISTANT

August 2015 - August 2018

• Studying the roles of non-coding RNAs in diseases and development with patient derived iPS cells

## Dr. Min-Chuan Huang Lab, Graduate Institute of Anatomy and Cell Biology, National Taiwan University College of Medicine

Taipei, Taiwan

Undergraduate research

January 2009 – August 2010

• Screening dysregulated glycosyltransferase expression in hepatic cancer

### **Publications**

Yu-Chieh David Chen, **Yen-Chung Chen**, Raghuvanshi Rajesh, Nathalie Shoji, Maisha Jacy, Haluk Lacin, Ted Erclik, Claude Desplan. "Using single-cell RNA sequencing to generate cell-type-specific split-GAL4 reagents throughout development" bioRxiv. (2023)

Ee Shan Liau, Suoqin Jin, **Yen-Chung Chen**, Wei-Szu Liu, Maëliss Calon, Stéphane Nedelec, Qing Nie, Jun-An Chen. "Single-Cell Transcriptomic Analysis Reveals Diversity within Mammalian Spinal Motor Neurons" Nature Communications **14**(1), 46 (2023)

Yen-Chung Chen, Nikolaos Konstantinides. "Integration of Spatial and Temporal Patterning in the Invertebrate and Vertebrate Nervous System" Frontiers in Neuroscience 16, 854422 (2022)

Brianne A. Kent, Constance Holman, Emmanuella Amoako, ..., **Yen-Chung Chen**, ..., Tracey L. Weissgerber. "*Recommendations for Empowering Early Career Researchers to Improve Research Culture and Practice*" *PLOS Biology* **20**(7), e3001680 (2022)

Nikolaos Konstantinides, Isabel Holguera, Anthony M. Rossi, Aristides Escobar, Liébaut Dudragne, Yen-Chung Chen, Thinh N. Tran, Azalia M. Martínez Jaimes, Mehmet Neset Özel, Félix Simon, Zhiping Shao, Nadejda M. Tsankova, John F. Fullard, Uwe Walldorf, Panos Roussos, Claude Desplan. "A Complete Temporal Transcription Factor Series in the Fly Visual System" Nature 604 (7905), 316–322 (2022)

Seungjae Lee, **Yen-Chung Chen**, FCA Consortium, Austin E. Gillen, J. Matthew Taliaferro, Bart Deplancke, Hongjie Li, Eric C. Lai. "Diverse Cell-Specific Patterns of Alternative Polyadenylation in Drosophila" Nature Communications **13**(1), 5372 (2022)

Mehmet Neset Özel, Félix Simon, Shadi Jafari, Isabel Holguera, **Yen-Chung Chen**, Najate Benhra, Rana Naja El-Danaf, Katarina Kapuralin, Jennifer Amy Malin, Nikolaos Konstantinides, Claude Desplan. "*Neuronal Diversity and Convergence in a Visual System Developmental Atlas*" *Nature* **589**(7840), 88–95 (2021)

Yen-Chung Chen, Claude Desplan. "Gene Regulatory Networks during the Development of the Drosophila Visual System" Current Topics in Developmental Biology 139, 89–125 (2020)

Ying-Tsen Tung, Kuan-Chih Peng, **Yen-Chung Chen**, Ya-Ping Yen, Mien Chang, Sebastian Thams, Jun-An Chen. "Mir-17~92 Confers Motor Neuron Subtype Differential Resistance to ALS-Associated Degeneration" Cell Stem Cell **25**(2), 193–209.e7 (2019)

Ya-Ping Yen, Wen-Fu Hsieh, Ya-Yin Tsai, Ya-Lin Lu, Ee Shan Liau, Ho-Chiang Hsu, Yen-Chung Chen, Ting-Chun Liu, Mien Chang, Joye Li, Shau-Ping Lin, Jui-Hung Hung, Jun-An Chen. "Dlk1-Dio3 Locus-Derived IncRNAs Perpetuate Postmitotic Motor Neuron Cell Fate and Subtype Identity" eLife 7, e38080

### **Honors & Awards**

2022	Training Program in Stem Cell and Regenerative Biology, NYSTEM	NY, USA
2022	Kopac Teaching Award II, New York University	NY, USA
2022	Chair's Graduate Fellowship, New York University	NY, USA
2022	Taiwanese Government Scholarship to Study Abroad, Ministry of Education	Taiwan
2017	Best Poster, International Conference of Developmental Biology, Stem Cells and Regenerative	Taipei, Taiwan
	Medicine	raipei, raiwaii

## **Membership and Services**

**Mentor Program** Project Tyra **MENTOR** 

Consulting graduate school applicants in biological sciences

preLights Company of Biologists Sep. 2018 - Present

**PRELIGHTER** 

Share and highlight preprints to advocate open discussion of scientific publications

**eLife Community Ambassadors** eLife

**ELIFE COMMUNITY AMBASSADOR** Apr 2019 - Jun 2020

Advocating better statistical practices, data reusability and reproduciblity

## Teaching and Work \_\_

**Statistics in Biology** New York University

GRADUATE TEACHING ASSISTANT Fall 2022

Recitation sessions of R and statistic methods

**R Bootcamp for Summer Undergraduate Research Program** 

**SPEAKER** Summer 2021 and 2022

A 10-session bootcamp for R in biology

**Sophomore Scholars Seminar** New York University

**GRADUATE TEACHING ASSISTANT** Fall 2021 and Spring 2022

Discussion panels about evo-devo, immunology, gene editing, and art

**Applied Genomics** New York University

GRADUATE TEACHING ASSISTANT Spring 2021

Design and host recitation sessions for the use of modern genomic tools for alignment, variant calling, RNA-Seq, and ChIP-seq

Principles of Biology I/II New York University

**GRADUATE TEACHING ASSISTANT** Fall 2019 and Spring 2020

Manage recitation sections to help undergrads from a diverse field appreciate various aspects of life sciences

### Techniques\_

**Bioinformatics** R, Python, and next-generation sequencing pipeline setup on Linux

**Tissue culture** Stem cell culture and directed differentiation **Animal model** Fly dissection and whole-mount immunostaining

Molecular biology Molecular cloning, Western blotting, real-time QPCR, and gene editing New York University