

HANYOU (YANCHAO PAN)

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EDUCATION

BS	Michigan State University, Genomics & Molecular Genetics: 3.96 / 4.00	2018
BA	Michigan State University, Accounting, GPA: 3.96 / 4.00	2018
MS	University of Michigan, Human Genetics, GPA: 4.00 / 4.00	2019

HONORS AND AWARDS

Philipp and Vera Gerhardt Research Award	2018
Awarded by Michigan State University department of Microbiology & Molecular Genetics	
Michigan State University Graduation with High Honor	2018
Graduation with high honor; member of honor college; Dean's list	
Anita and Howard Cramer Scholarship Award	2019
Awarded for academic supremacy at University of Michigan, received 7 A+ out of 8 courses	

RESEARCH EXPERIENCE

Donna Koslowsky Lab, Michigan State University, Department of Microbiology & Molecular Genetics 2017 - 2018

Research Assistant

- Engage in research about *Trypanosoma brucei*'s mitochondrial RNA editing
- Deep sequencing sample preparation (tissue culture, mitochondria and RNA extraction, PCR with various polymerases, making and analyzing acrylamide gels, phenol chloroform extraction, PCR purification, Nanodrop)
- Deep sequencing data analysis (using HPC to handle the raw data, writing Python software, handling large data sets)

Jun Li Lab, University of Michigan, Department of Human Genetics 2018 - current
PhD student, Lab Technician, Master Student

- Develop a framework to calculate the power of CNV detection using coverage-based method
- Lab website creation and maintenance
- Improve the existing rat reference genome and create a panel of reference-quality genomes for many additional rat lines
- Develop a new cancer incidence model based on multinomial logistic regression

TEACHING EXPERIENCE

Learning Resource Center, Michigan State University 2015
Tutor

- 1 semester as tutor for various natural science courses

Department of Physics, Michigan State University 2016
Teaching Assistant

- 3 semesters as TA for PHY 231 and PHY 232, class size ~200

COMMUNITY SERVICE

China Conservation and Research Centre for the Giant Panda, Sichan 2012
Zookeeper

- One-month volunteering as zookeeper for giant pandas
- Cleaned the cage and playground, fed giant pandas

Volunteer Income Tax Assistance, East Lansing, Michigan 2015 - 2017
Site Coordinator and Quality Reviewer

- Provide free tax service to families with low income
- First year as basic tax preparer, second year as site coordinator and quality reviewer