

Chunpeng James Chen

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Washington State University
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EDUCATION

2016- Present Ph.D. candidate, Crop Science
Washington State University, Pullman, WA, USA
Dissertation: Improving Wheat Breeding Processes by the Integration of Computational Approaches and Biological Problems

2010-2014 B.S., Agronomy
National Taiwan University, Taipei, Taiwan

PROFESSIONAL POSITIONS

2016- Present **Graduate Research Assistant**
Department of Crop and Soil Sciences, Washington State University, Pullman, WA, USA

2016-2016 **Research Assistant**
Institute of Plant and Microbial Biology, Academia Sinica, Taiwan

2015-2016 **Data Analyst**
Yu-Shun International Cultural CO., LTD, Taipei, Taiwan

2014-2015 **Corporal**
564 Armor Brigade, 8th Army Corps, Republic of China Army, Taiwan

2012-2014 **Undergraduate Research Assistant**
Department of Agronomy, National Taiwan University, Taipei, Taiwan

TEACHING EXPERIENCE

Teaching Assistant for Statistical Genomics (CropS 545) at Washington State University, Spring semester, 2017.

PROFESSIONAL ACTIVITIES

Guest Lectures

May, 2018 *CropS 545: Statistical Genomics*
Introduction to Machine Learning and Ensemble Methods

Feb, 2017 *CropS 545: Statistical Genomics*
Principal Component Analysis

Oral Presentation

Mar, 2018 *WSU Plant Sciences Retreat 2018*
GWAS and GS are as easy as clicking and dragging with iPat.

Feb, 2018 *The World Congress on Genetics Applied to Livestock Production, 2018*
GWAS and GS are as easy as clicking and dragging with iPat.

Jan, 2018 *Plant and Animal Genome XXVI (PAG 2018)*, iPat: Intelligent Prediction and Association Tool for Genomic Research

Nov, 2017 *Crop Sciences Seminar at Washington State University*
Application of Random Forest in Genomics Selection

May, 2017 *Plant and Animal Genome Asia 2017 (PAG Asia 2017)*
Intelligent prediction and association tool for genomic research

May, 2017 *Plant and Animal Genome Asia 2017 (PAG Asia 2017)*

Segregation Analysis and Its Implementation in iPat

Poster Presentation

- Mar, 2018 *2018 WSU Plant Science Symposium*
iPat: intelligent prediction and association tool for genomic research
- Jan, 2018 *Plant and Animal Genome XXVI (PAG 2018)*, iPat: Intelligent Prediction and Association Tool for Genomic Research
- May, 2017 *Plant and Animal Genome Asia 2017 (PAG Asia 2017)*
Intelligent prediction and association tool for genomic research
- Jan, 2017 *Plant and Animal Genome XXV (PAG 2017)*
Interface of Prediction and Association for Genomics

Ad Hoc Reviewer

Bioinformatics, Crop & Pasture Science, and PLoS One

COURSEWORK (GPA 3.82)

- CptS 121 *C / C++ Program Design & Development*
- CptS 122 *C / C++ Data Structure*
- CptS 483 *Introduction to Machine Learning*
- CptS 570 *Machine Learning*
- Hort 503 *Intro to Computing Data Science*
- Hort 503 *System Biology*
- MBioS 578 *Bioinformatics*
- BSysE 552 *Unmanned Aerial System in Agriculture*

PROGRAMMING SKILLS

Java, R, Python, C, C++, Bash, JavaScript, and Perl.

SOFTWARE DEVELOPED

iPat: Intelligent Tool for Prediction and Association (<http://zzlab.net/iPat> and <https://github.com/Poissonfish/iPat>).

FOUNDING RECEIVED

- Washington Wheat Foundation, \$3,238, Principal Investigator, “Instant and non-destructive prediction of wheat Hagberg falling number from hyperspectral imaging by using parallel computation with graphics processing units (GPU)”, November 8, 2018 – November 7, 2019,
- Travel grant of International Conference of Plant and Animal Genome, 2018, \$1,300

PUBLICATIONS

1. Chen C, Zhang Z. (2018) iPat: intelligent prediction and association tool for genomic research. *Bioinformatics*, 34, 1925-1927.
2. Chen C, Zhang Z. (2018) GWAS and GS are as easy as clicking and dragging with iPat. *The World Congress on Genetics Applied to Livestock Production*.

AWARDS

- 2018-2019 Vogel Washington State Crop Improvement Association Scholarship
- 2018- 2019 Roscoe and Frances Cox Scholarship
- Oct, 2017 2nd place for the 3rd Annual WSU Hardware Hackathon
- Jun, 2017 [Winner of Student Workshop Competition at PAG Asia](#)