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Tao Yan

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PhD Candidate Student in Crop Genetics and Breeding

Bio. I am currently a 3th-year PhD Candidate Student at College of Agriculture and Biotechnology, Zhejiang University (ZJU), Hangzhou, China, working with Prof. Lixi Jiang on Crop Genetics and Breeding.

Research interests. My Ph.D research work covers a range of issues : **Population Genetics Evolution and Ecotype Divergence Analysis of oilseed Rape, Genome-wide Association Study**. Currently, I am interesting in Transposable Elements Insertion Polymorphisms (TIPs) in Crop Population. And I am also interesting in combining **NGS technology** and **machine learning** to solve biological problems.

Education

- Sep 2016 – **PhD Candidate** in Crop Genetics and Breeding, *Zhejiang University (ZJU)*, Hangzhou
College of Agriculture and Biotechnology (CAB)
Advisor : *Prof. Lixi Jiang*
- Sep 2012 – Jun 2016 **Bachelor of Agronomy**, *Zhejiang University (ZJU)*, Hangzhou
Advisor : *Prof. Yinbo Gan*

Publications

- Wu D, Liang Z, **Yan T**, Chalhoub B, Shen L, Yu H, Jiang LX(2018), "Whole-genome resequencing of a world-wide collection of rapeseed accessions reveals genetic basis of their ecotype divergence", *Molecular Plant*, DOI : 10.1016/j.molp.2018.11.007.
- Zhou LH, **Yan T**, Chen X, Li ZL, Wu DZ, Hua SJ, Jiang LX(2018), "Effect of high night temperature on storage lipids and transcriptome changes in developing seeds of oilseed rape (*Brassica napus* L.)", *Journal of Experimental Botany*, 9 : 1721-1733
- Xuan LJ, Zhang CC, **Yan T**, WU DZ, Hussain N, Li ZL, Chen MX, Pan JW, Jiang LX(2018), "TRANSPARENT TESTA 4-mediated flavonoids negatively affect embryonic fatty acid biosynthesis in Arabidopsis", *Plant Cell Environment*, 4 : 2773-2790
- YAN T**, XUAN Lijie, JIANG Lixi(2018), "Effects of flavonoids on fatty acid accumulation and its molecular mechanisms in oilseed rape", *Journal of Agricultural Biotechnology*, 3 : 253-258

Skills

- Programming Skills : **R/Shell**, Python, Git.
- Bioinformatics : *master in* **RNA-seq, GWAS, Population Genetic Evolution**.
familiar with most NGS-related techiques.
- Data Science : *master in* **Data Manipulation and Visualization with R**.
familiar with Data Manipulation with Python and Shell.

Languages

- English : Reading ● ● ● ● ● CET-6 : 516
Listening ● ● ● ○ ○
Speaking ● ● ● ○ ○

Honors & Awards

- 2017 - 2018 Model Student of Academic Records and Merit Student of Zhejiang University.
- 2013 - 2015 Scholarship and Merit Student of Zhejiang University(2st-class (<10%), 1 time; 3nd-class (<30%), 1 times).

Interests

- Sports : table tennis, badminton, Climbing.
- Others : Movies, Philosophy, Reading, Music, cycling, Working out.