

# Yutian Mu

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## EDUCATION

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<b>Columbia University, Mailman School of Public Health, New York, NY</b>	<b>Expected May 2019</b>
<ul style="list-style-type: none"><li>• Master of Science in Biostatistics</li><li>• <i>Relevant Course:</i> Data Science(implementing R), Probability, Introduction to Biostatistical Methods, Epidemiology</li></ul>	
<b>China Agricultural University, Beijing, P.R.China</b>	<b>Sept.2013-June.2017</b>
<ul style="list-style-type: none"><li>• Bachelor of Science in Biological Science, College of Biological Science</li><li>• overall GPA: 3.87/4.0, major GPA:3.95/4.0, Rank:3/91</li></ul>	

## ACADEMIC EXPERIENCE

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<b>Research Assistant, Prof. Ziding Zhang's Lab, China Agricultural University</b>	<b>Sept.2016-June.2017</b>
<b><i>Analysis of Differently Expression Genes against Bgh Stress in Arabidopsis thaliana and Triticum aestivum (Thesis)</i></b>	
<ul style="list-style-type: none"><li>• Matched <i>Triticum</i> probes with cDNA database by using blastn; used InParanoid to identify homologous proteins between <i>Triticum</i> and <i>Arabidopsis</i>; annotated gene functions of <i>Triticum</i> through Blast2go.</li><li>• Identified common and unique differently expression genes of the two species; performed functional enrichment analysis of the differently expression genes, including gene ontology enrichment analysis, KEGG pathway analysis and gene functional classification analysis; analyzed protein domains of differently expression genes of the two species.</li></ul>	
<b>Research Assistant, Dr. Haoshu Luo's Lab, China Agricultural University</b>	<b>Dec.2014-May 2016</b>
<b><i>Expression and functional test of fibroblast growth factors 18(FGF18) in mice liver and jejunum (independent project)</i></b>	
<ul style="list-style-type: none"><li>• Constructed vector and expressed recombinant human FGF18 in DH5<math>\alpha</math> and BL21 strains of <i>E.coli</i>; determined expression pattern of FGF18 in mice liver and jejunum through immunohistochemistry techniques; evaluated the effect of FGF18 on cell proliferation with NIH 3T3 cell line in vitro.</li></ul>	
<b>Research Intern, Dr. Feng Shao's Lab, National Institute of Biological Sciences, Beijing(NIBS)</b>	<b>Jul.2015-Aug.2015</b>
<b><i>Subversion of Bacterial Autophagy by a Salmonella Effector</i></b>	
<ul style="list-style-type: none"><li>• Modified properties of the <i>Salmonella</i> effector by creating a series of single nucleotide mutations through Quick change PCR; detected interactions between the <i>Salmonella</i> effector and several essential proteins in bacterial autophagy through <i>in vitro</i> immunofluorescence techniques; performed molecular cloning, protein expression, and protein purification.</li></ul>	

## WORK EXPERIENCE AND EXTRA-CURRICULAR ACTIVITIES

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<b>Teaching Assistant, College of Biological Science, China Agricultural University</b>	<b>Sept.2016–Dec.2016</b>
<ul style="list-style-type: none"><li>• Tutored about 80 undergraduate students on coursework and presentation in molecular biology and gave guidance on academic and social issue.</li></ul>	
<b>Student Council, College of Biological Science, China Agricultural University</b>	<b>Sept.2013–May 2015</b>
<ul style="list-style-type: none"><li>• Planned and organized lectures and study seminars monthly for students in the college.</li><li>• Edited an annual magazine, including essays and published papers written by college members.</li></ul>	

## COMPUTER SKILLS

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- 1 year programming experience in Perl, currently learning R, data management and visualization
  - SAS Base Certificate Programmer