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# Timothy Batz

## Masters student - Plant Science

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909.531.3205  
tabatz@cpp.edu

### SKILLS

Nonverbal and written communication, teamwork, leadership, microbiology methods, histology, horticulture, laboratory safety, scientific writing, Microsoft Office, Spanish language proficiency

### RESEARCH INTERESTS

Inflorescence development in *Aquilegia coerulea* (Columbine), flowering responses to vernalization, plant genetics and genomics, tissue culture, plant transformation, flowering traits

### EXPERIENCE

#### **RISE Intensive Graduate Program, Cal Poly Pomona** - Graduate student

June 2016 - Present

- Grant writing and editing
- Scientific oral presentation skills
- Mentoring undergraduates
- Comprehending scientific literature

#### **Citrus College Summer Research Experience Program** - Graduate student mentor

June 2016 - August 2016

- Mentored undergraduate students in scientific writing
- Mentored undergraduate students in scientific poster formatting
- Mentored undergraduate students in plant histology and greenhouse cultivation

#### **Plant Genomics REU, Michigan State University** - Summer research intern

June 2015 - August 2015

- DNA and RNA extraction and quantification
- Southern and Northern Blot methods
- Tomato cultivation in growth chambers
- Autoradiography for probe visualization

#### **Cornell Summer Scholars REU, Geneva, NY** - Summer research intern

June 2014 - August 2014

- Multi-channel pipette techniques
- SDS-PAGE (polyacrylamide gel electrophoresis) procedure
- PCR (polymerase chain reaction) techniques
- UV DNA band visualization and analysis

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## EDUCATION

### California State Polytechnic University, Pomona, CA

Plant Science, B.S. August 2012 - September 2016

Plant Science, M.S. September 2016 - June 2018 (anticipated)

## EXTRACURRICULAR ACTIVITIES & AWARDS (2014 - current)

### 2017

Ag Day LA - **Volunteer**

Ag 200 - Professional Development - **Student mentor**

Botanicus (Cal Poly Botany Club) - **President**

MENTORES Program Fellowship - **Awardee**

Office of Undergraduate Research (OUR) Student Travel Grant - **Awardee**

PLT 131L - Plant Propagation Lab - **Student teaching assistant**

### 2016

Ag Day LA - **Volunteer**

Botanical Society of America PLANTS Program, Enhancing Diversity at the Botanical Society - of America Conferences Grant - **Awardee**

Botanicus (Cal Poly Botany Club) - **Scheduler**

Cal Poly Pomona Science Council - **Member**

Careers in Agriculture Grant - **Awardee**

Dean's List

Plant Science Departmental Scholarship - **Awardee**

RISE (Research Initiative for Scientific Enhancement) Intensive Graduate Program - **Student**

13th Annual Solanaceae Conference - **Session cochair**

### 2015

Ag Day LA - **Volunteer**

Dean's List

Botanicus (Cal Poly Botany Club) - **Member**

Harry Welch Memorial Scholarship - **Awardee**

Los Robles Horticulture Club - **Member**

Michigan State University, Plant Genomics Summer Research Program - **Participant**

Wana Yee Huie Memorial Scholarship - **Awardee**

### 2014

Ag Day LA - **Volunteer**

Cornell University Summer Research Program - **Participant**

Focus on the Future Program: Cultivating a Multicultural 21st Century Workforce in the U.S. - Agriculture Sector - **Participant**

Harry Welch Memorial Scholarship - **Awardee**

Los Robles Horticulture Club - **Member**

Plant Science Departmental Scholarship - **Awardee**

Roy Lieb Memorial Scholarship - **Awardee**

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## PROJECTS & PRESENTATIONS

### Polyphagous Shot Hole Borer Campus Survey

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Timothy Batz, Dr. Valerie Mellano

Plant Science Department, California State Polytechnic University, Pomona

- 8th Annual Cal Poly Science Research Symposium, May 31, 2013  
[http://web.sci.csupomona.edu/students/research\\_symposium/2013/long\\_program.pdf](http://web.sci.csupomona.edu/students/research_symposium/2013/long_program.pdf)
- SCCUR (Southern California Undergraduate Research) Symposium, November 23, 2013  
<http://sccur.whittier.edu/WCsccur/SCCUR/Abstract/ViewAbstract/polyphagous-shot-hole-borer-campus-survey>
- 2nd Annual Cal Poly Pomona Student Research Conference, March 7, 2014  
<http://www.csupomona.edu/~cppsrg/documents/2ndAnnualCPPSRCProgramFinal.pdf>

### Effects of Chilling and Defoliation on Flush Production of ACP Host Plants

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Timothy Batz, Dr. Ana Soper

Plant Science Department, California State Polytechnic University, Pomona

- California State Polytechnic University Pomona ACP Research Symposium, June 5, 2014  
Abstract unavailable online, hardcopy available upon request.

### Diversity of the MQ8 Locus, a Major QTL Conferring Apple Fruit Acidity

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Timothy Batz<sup>1</sup>, Dr. Kenong Xu<sup>2</sup>

Plant Science Department<sup>1</sup>, California State Polytechnic University, Pomona

Cornell University<sup>2</sup>, New York State Agriculture Experiment Station, Geneva, NY

- SCCUR (Southern California Undergraduate Research) Symposium, November 23, 2014  
Abstract unavailable online, hardcopy available upon request

### The evolutionary impact of a Pack-MULE element in tomato and its wild relatives

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Timothy Batz<sup>1</sup>, Stefan Cerbin<sup>2</sup>, Dr. Ning Jiang<sup>2</sup>

Plant Science Department<sup>1</sup>, California State Polytechnic University, Pomona

Department of Plant Biology<sup>2</sup>, Michigan State University, East Lansing, MI

- Mid-SURE (Mid-Michigan Symposium for Undergraduate Research Experiences), July 22, 2015  
<http://urca.msu.edu/forums/mid-sure-2015>
- RISE Symposium, September 4, 2015  
<https://www.cpp.edu/~sci/rise/presentations/2015.shtml>

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## **Development of Tissue Culture & Transformation Protocols for *Aquilegia* & *Nigella***

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Timothy Batz<sup>1</sup>, Summer Blanco<sup>2</sup>, Dr. Bharti Sharma<sup>2</sup>  
Plant Science Department<sup>1</sup>, Department of Biological Sciences<sup>2</sup>  
California State Polytechnic University, Pomona

- 4th Annual Student RSCA Conference, March 4, 2016  
<http://www.cpp.edu/~cppsrc/conference-2016/program/index.shtml>
- 11th Annual Science Research Symposium, May 27, 2016  
Abstract unavailable online, hardcopy available upon request

## **Vernalization is key to flowering in *Aquilegia coerulea***

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Timothy Batz<sup>1</sup>, Dr. Bharti Sharma<sup>2</sup>  
Plant Science Department<sup>1</sup>, Department of Biological Sciences<sup>2</sup>  
California State Polytechnic University, Pomona

- 5th Annual Student RSCA Conference, March 3, 2017  
[https://www.cpp.edu/~cppsrc/past-conferences/2017/5thStudentRSCAConference\\_Program.pdf](https://www.cpp.edu/~cppsrc/past-conferences/2017/5thStudentRSCAConference_Program.pdf)