

# CECILIA ZUMAJO-CARDONA

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## EDUCATION

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**The New York Botanical Garden & The Graduate Center- CUNY** August 2016 - Present  
Ph.D. Candidate  
Biology Department, Plant Science

**The New York Botanical Garden & The Graduate Center- CUNY** 2016 - 2019  
Master of Philosophy Biology.

**B.Sc. in Biology, Universidad de Antioquia, Medellin, Colombia** 2010 - 2015

## ACADEMIC EXPERIENCE

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**Lab. assistant, Evo-Devo in Plants. November 7 2015 to August 7 2016**  
Universidad de Antioquia. P.I. Natalia Pabon-Mora. Project title: "Functional Evolution of the *FRUITFULL* gene lineage in the tomato family (Solanaceae)"

**EDEN, Evo-Devo-Eco Network Undergraduate Fellowship. June 13 to August 23, 2015**  
New York Botanical Garden, Genomics program, PI: Barbara Ambrose "*Can the fruit developmental network of *Arabidopsis thaliana* be extrapolated to early diverging eudicots?*".

**Cathedra teacher assistant. January- June 2015**  
Maths for High school, Medellin, Colombia

**Young researcher. 2013 - 2014**  
Project '*Duplicacion de genes FUL-like en Ranunculales y su impacto en la diversificacion morfologica de amapolas*'. PI: Natalia Pabon - Mora, CODI, Universidad de Antioquia, Medellin, Colombia

**Herbarium 2013**  
Universidad de Antioquia, Medellin, Colombia  
Assistant herbarium workshop: 'Herbario Universidad de Antioquia' (HUA)

## PUBLICATIONS

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Mendelson, E., Zumajo-Cardona, C., Ambrose, B. 2020. **What is a fruit?** *Frontiers for Young Minds*. In press. (Science communication paper).

Zumajo-Cardona, C., Vasco, A., Ambrose, B. 2019. **The Evolution of the *KANADI* Gene Family and Leaf Development in Lycophytes and Ferns.** *Plants*. 8:313.

Zumajo-Cardona, C., Pabon-Mora, N., Ambrose, B. 2018. **Duplication and diversification of *REPLUMLESS* a case study in the Papaveraceae.** *Frontiers in Plant Science*. doi: 10.3389/fpls.2018.01833.

Stevenson, D., Zumajo-Cardona, C. 2018. **From Plant Ontology to Gene Ontology and back.** *Current Plant Biology*. doi: 10.1016/j.cpb.2018.09.009.

**Zumajo-Cardona, C., Ambrose, B., Pabon-Mora, N.** 2017. Evolution of the *SPATULA/ALCATRAZ* Gene Lineage and expression analyses in the Basal Eudicot, *Bocconia frutecens* L. (Papaveraceae). *EvoDevo* doi: 10.1186/s13227-017-0068-8.

**Zumajo-Cardona, C., Pabon-Mora, N.** 2016. Evolution of the APETALA2 Gene Lineage in Seed Plants. *Molecular Biology and Evolution*. doi:10.1093/molbev/msw059.

S. Marcellini, F. Gonzlez, A. F. Sarrazin, N. Pabn-Mora, M. Bentez, A. Pieyro-Nelson, G. L Rezende, E. Maldonado, P. Neiva Schneider, M. B Grizante, R. Nunes DA Fonseca, F. Vergara-Silva, V. Suaza-Gaviria, **C. Zumajo-Cardona**, E. E Zattara, S. Casasa, H. Surez-Baron, F. D Brown. 2016. Evolutionary Developmental Biology (Evo-Devo) Research in Latin America. *J. Exp. Zool. B Mol. Dev. Evol.* doi: 10.1002/jez.b.22687

## CONGRESSES, SEMINARS AND COURSES

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**The society for Integrative and Comparative Biology, SICB. Austin, TX** January 3 to 8, 2020

*Short talk: The evolution of the integument and its implication in seed plant evolution.*

· **Venice summer school 2019: Mechanism in development and evolution** August 26 to 30, 2019

*EMBO. Venice, Italy. Short course.*

· **Botany, Tucson, Arizona.** July 27 to 31, 2019

*Two short talks: "Evolution of the integument developmental genes in seed plants" and "Anatomical development of the ovules in Cycadales."*

· **The Genome access course TGAC.** November 11 to 13, 2018

*Cold Spring Harbor and CUNY. New York, U.S.A. Short course.*

· **Introduction to Python** October 23 to November 1, 2018

*New York, U.S.A. Short course.*

· **II Joint Congress on Evolutionary Biology** August 19 to 22, 2018

*Poster. "Fleshy fruits and Fleshy seeds in gymnosperms, a case of convergent evolution?"*

· **Botany, Rochester, Minnesota.** July 21 to 25, 2018

*Short talk: "Evolution of the RPL gene lineage in Papaveraceae"*

· **IX Latin American Society of Developmental Biology Meeting** October 9 to 13, 2017

*Short talk: "Expression analyses of fruit developmental genes in selected non-core eudicots"*

· **Course: Comparative Genomics and transcriptomics in non-model species - Medelln, Colombia.** October 2 to 6, 2017

*By Jeremiah Smith, University of Kentucky and Yvan Wenger, Universite de Geneve.*

· **XIX International Botanical Congress, Shezhen, China.** July 23 to 29, 2017

*Short talk: "Lycophyte evolution and development: a transcriptomic and genetic approach" Outstanding Student Award.*

· **Primer Encuentro Nacional de Biologa del Desarrollo, Bogot, Colombia** September 24 to 26, 2015

*Short talk: "Evolution of the APETALA 2 gene lineage in seed plants"*

**First Panamerican Evo-Devo meeting, Clark Kerr Campus, University of California Berkeley** August 5 to 9, 2015

*Short talk: "Evolution of the APETALA 2 gene lineage in seed plants"*

- **VII Colombian congress of botany: VII Congreso Colombiano de Botanica, Ibagué-Tolima, Universidad del Tolima** August 7 to 10, 2013  
*Poster exhibitor, first prize undergraduate Poster*
- Course: '**Curso de Omicas, Actualizacion en genomica, transcriptomic y proteomic**' 2013  
*Course: 'Curso de Omicas, Actualizacin en genomica, transcriptomica y protomica'*
- Course: '**Estrategias para la conservacion ex situ de recursos fitogeneticos**' 2013  
*Corganized by the Instituto Nacional de Ciencias Agricolas (INCA) Cuba, dictated by: Maria Esther Gonzalez Vega.*
- **VI Colombian congress of botany: 'VI Congreso Nacional de Botanica'** August 11 to 15, 2011  
*Universidad Javeriana, Cali, Colombia*
- **Conservation seminar: Region Biodiversa, por la conservacion de los bosques de Antioquia** 2010  
*Organized by rea Metropolitana, Alcalda de Medellin, y Jardin Botanico de Medellin*
- **Research seminar: Seminario de investigacion** 2009  
*Organized by Universidad de Antioquia.*

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## AWARDS AND GRANTS

**Bill Dahl Graduate Student Research Award** by the Botanical Society of America \$1500 in July 2019.

**Doctoral Student Research Grant -** The Graduate Center, CUNY. \$1500. In 2019.

**Eppley Foundation for Research** *The Origin of the Fruit* P.I. Barbara Ambrose. \$29450. In June 2018

**BSA Development and Structural Section with the publication** *Expression and functional studies of basal eudicot REPLUMLESS homologs during flower and fruit development.* In 2018.

**First Prize, Student Research Award,** with the publication *Evolution of the APETALA2 Gene Lineage in Seed Plants.* Universidad de Antioquia, Medellin, Colombia. In 2016.

**Best undergraduate Poster** VII Colombian congress of botany: VII Congreso Colombiano de Botanica, Ibagué, Tolima. In 2013.

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## FIELD EXPERIENCE

**Whitewater preserve, California, February 2019**

*Ephedra californica collections*

**Palo Pinto Co., Texas, February 2019**

*Ephedra antisyphilitica collections*

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## TEACHING EXPERIENCE

**Principles of Biology Lab 166: Cell and Genes. Lehman College, CUNY -** August 2019 - December 2019

*Three sections, 7.5 hours weekly*

**Principles of Biology Lab 167: Organisms. Lehman College, CUNY** - February 2019  
- June 2019  
*Three sections, 7.5 hours weekly*

**Principles of Biology Lab 166: Cell and Genes. Lehman College, CUNY** - August 2018 - December 2018  
*Three sections, 7.5 hours weekly*

**Principles of Biology Lab 167: Organisms. Lehman College, CUNY** - February 2018  
- June 2018  
*Two sections, 5 hours weekly*

## **STUDENT MENTORING EXPERIENCE**

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**Undergraduate dissertation co-tutoring**, to Eliana Mendelson, Brandeis University Student  
"*Expression analyses of fruit genes in selected basal angiosperms*" Since August 2019

**Undergraduate dissertation co-tutoring**, to Dominique Jeton Groffman, Columbia University Student "*Evolution of the SPOROCYTELESS/SPEAR gene family across land plants*" February 2018 - August 2019

**Summer Intern tutoring**, to Beverly Kukiel, Lehman College Student "*Comparative anatomical and developmental analysis of dry and fleshy fruits in selected basal angiosperms*"