Linda J. McPheron

814 Lexington Ave. / El Cerrito, CA 94530
(510) 414-0671 / ljmcpheron@gmail.com

Education

Ph.D., Dept. of Entomology, Univ. of California, Berkeley, CA
M.S., Dept. of Entomology, Kansas State Univ., Manhattan, KS
B.A., Kalamazoo College, Kalamazoo, MI

Teaching Experience

City College of San Francisco, CA. Lecturer. Fall, 2015 – present (8 semesters)
Human Biology, **The Science of Living Organisms** (3 semesters)
University of San Francisco, CA. Lecturer. Fall, 2013 – 2020 (10 semesters)
Insect Biology (6 semesters). **The Science of Living Organisms** (1 semester)
Santa Rosa JC, CA. Lecturer. Aug. 2021 – present.
Human Biology, General Biology
Dominican University, CA. Instructor. 2003 – 2004.
Organismal Biology (1 semester), **Evolution and Ecology** (1 semester)
San Francisco State University, CA. Lecturer. 2010 - 2016, 2020
Ecology of California (2 semesters), **Limnology** (1semester), **Principles of Ecology** (3 semesters), **Human Biology** (4 semesters), **Nature Study** (4 semesters), **World of Plants Lab** (4 semesters), **Human Biology lab** (4 semesters)
Mills College, CA Part-time Faculty. 1999 – 2002.
Biology 1A (animal diversity) (1 semester), **Ecology and Evolution** (for biology majors) (2 semesters)
Berkeley City College, CA. Instructor. Presently teaching
Human Biology (14 semesters), **Biology 1B** (botany, ecology, evolution) (2 semesters), **Biology 1A** (animal diversity) (1 semester), **Biology 10 (General Biology)** (12 semesters), **Scientific Literature** (6 semesters), **Principles of Ecology** (20 semesters)
UC Berkeley, Lecturer.
Biology 1B (1 semester),
UC Berkeley, Graduate Student Instructor.
Biology 1B (5 semesters)

Professional Development

FLOSS (Faculty Learning Optimizes Student Success) program; collaboration between UC, Cal State and Berkeley City College educators. Spring 2021.

Changing Minds Projects (part of CCB FEST Advanced Summer Institute; San Francisco State University): 2014-2015.

- As a group we collected pre- and post- assessment questions in biology classes and compared results to look at the effectiveness of teaching methods

Talk Matters (part of CCB FEST Advanced Summer Institute; San Francisco State University): 2014-2015.

- As a participant we had an entire class tape recorded and analyzed for sound patterns in the classroom (how much time are students engaged in active learning vs. lecturing) & for "instructor talk" – which is how instructors discuss their teaching strategies to their students

Biology Scholars Program Research Resident; 2014/2015.

- The program empowers biologists to be leaders in science education
- Residents will conduct, publish, and communicate research studies on learning of students in undergraduate science by attending 2 week-long out-of-state conferences

Summer Institute: CCB FEST (Community College Biology Faculty Enhancement through Scientific Teaching); 2011.

- Week-long intensive pedagogy institute; hands-on, active learning workshop
- Focused on Scientific Teaching, Assessment, Diversity and Equity, and Active Learning

Teaching Square: CCB FEST (Community College Biology Faculty Enhancement through Scientific Teaching); Fall 2011.

- Organized regular meetings with other Community College Faculty
- Conducted classroom audits for each member
- Developed and assessed new activities; videotaped classes

SEPAL (The Science Education Partnership & Assessment Lab) San Francisco State University: attended teaching and science pedagogy workshops regularly. 2007 – present.

Science 750: An Introduction to Science Education, Pedagogy, and Partnership at San Francisco State University; Fall 2007.

- Attended all class meetings
- Course focused on Scientific Teaching, Assessment, Diversity and Equity, and Active Learning
- Conducted a research project on gender equity in my classroom

Biology Laboratory Writing Group; Faculty from four institutions; Fall 2011.

- Writing and critiquing new inquiry-based labs for General Biology

Teaching and Learning Center mini – grant projects – received 3 grants; Berkeley City College; 2010 - 2012.

- *The Effectiveness of Active Learning Techniques in Six Science Classes*
- *Comparing Oral vs. Written Assessments of Science Skills in an Ecology Class*
- *Does Excessive Terminology Interfere with Student Learning of the Scientific Process?*

Teaching and Learning Center POP (Peer Observation Pool) participant. 2012-2014.

- Participated in POP; attended several classes as an observer at BCC

Temporary Distance Education Conference (2 weeks); City College of San Francsico, June 1 – 12, 2020.

Reading Apprenticeship Program Participant: 2016.

- Attended program: Deeper STEM Learning Through Metacognitive Conversation

Distance Education Training

Temporary Distance Learning Training – CCSF Summer 2020.

2 week intensive training course for remote teaching

A B C D's of Online Course Design – BCC Fall 2020.

4 week course based on the CVC – OEI Course Design Rubric taught by Chris Bernard and Linda McAllister; as a result of this training I will be submitting 2 of my online

courses to BCC's POCR (Peer Online Course Review) this semester (as it becomes available).

Online Special Expertise, Canvas Training Class – Santa Rosa JC; Jan. 2022

Administrative Experience

PACE (Program for Adult College Education) Coordinator. 2002-2003.
Berkeley City College

- helped to maintain the PACE program
- assessed and developed curriculum
- organized retreat topics on adult learners
- developed a New Faculty Handbook for PACE Instructors

Research Experience

Biology Scholars Program Fellow, *Education research: Does science terminology interfere with learning biology concepts?* (supervisor: Miriam Segura-Totten, Univ. N. Georgia). 2014-2015.

Visiting Postdoctoral Fellow. *Research on postdoctoral issues.* (supervisor: Dean Joseph Cerny, Graduate Division, UC Berkeley, CA). 2 years

Departmental Research Assistant. *Dissertation research*: The role of associative learning in the foraging behavior of *Mischocyttarus flavitarsis*. (Nicholas Mills, Div. of Insect Biology, UC Berkeley, CA) 3 years

Research Assistant. Effects of verbenone on response of *Ips paraconfusus* to naturally produced pheromones in the laboratory. (Dave Wood, Dept. of Entomology, UC Berkeley, CA) 2 years

Research Assistant. *Master's Thesis*: Pupation Site Selection in the Stable Fly (Diptera:Muscidae). (Alberto Broce, Kansas State Univ., KS) 2 years

Research Assistant. *Undergraduate Senior Thesis*: An analysis of stimuli used during courtship of the monarch butterfly, *Danaus plexippus*. (Adrian Wenner, Dept. of Biological Sciences, Univ. of California, Santa Barbara) 6 months

Research Assistant (Career Development *Internship*). Materials isolated from house fly, *Musca domestica*, L., pupae influencing behavior of the parasitoid *Spalangia endius* Walker. (David Carlson, USDA-Insects Affecting Man and Animals Research Lab, Gainsville, FL). 6 months

Scientific Papers

Owens, MT*, Seidel, SB*, Wong, M*, Bejines, TE, Lietz, S, Perez, JR, Sit, S, Subedar, ZS, Acker, GN, Akana, SF, Balukjian, B, Benton, HP, Blair, JR, Boaz, SM, Boyer, KE, Bram, JB, Burrus, LW, Byrd, DT, Caporale, N, Carpenter, EJ, Chan, YHM, Chen, L, Chovnick, A, Chu, DS, Clarkson, BK, Cooper, SE, Creech, C, Crow, KD, de la Torre, JR, Denetclaw, WF, Duncan, KE, Edwards, AS, Erickson, KL, Fuse, M, Gorga, JJ, Govindan, B, Green, LJ, Hankamp, PZ, Harris, HE, He, ZH, Ingalls, S, Ingmire, PD, Jacobs, JR, Kamakea, M, Rhea R. Kimpo, Knight, JS, Krause, SK, Krueger, LE, Light, TL, Lund, L, Márquez-Magaña, LM, McCarthy, BK, ***McPheron, LJ***, Miller-Sims, VC, Moffatt, CA, Muick, PC, Nagami, PH, Nusse, GL, Okimura, KM, Pasion, SG, Patterson, R, Pennings, PS, Riggs, BE, Romeo, J, Roy, SW, Russo-Tait, T, Schultheis, LM, Sengupta, L, Small, R, Spicer, GS, Stillman, JH, Swei, A, Wade, JM, Waters, SB, Weinstein, SL, Willsie, JK, Wright, DW, Harrison, CD, Kelley, LA, Trujillo, G, Domingo, CD, Schinske, JN, Tanner, KD.

2017. **Classroom Sound Can Be Used To Classify Teaching Practices in College Science Courses,** *Proceedings of the National Academy of Sciences,* 114 (12): 3085–3090; doi: 10.1073/pnas.1618693114.

Harrison C, Tiffy Nguyen, Shannon Seidel, Alycia Escobedo, Courtney Hartman, Katie Lam, Kristen Liang, Miranda Martens, Gigi Acker, Susan Akana, Brad Balukjian, Hilary Benton, J. Blair, Segal Boaz, Katharyn Boyer, Jason Bram, Laura Burrus, Dana Byrd, Natalia Caporale, Edward Carpenter, Yee-Hung Chan, Lily Chen, Amy Chovnick, Diana Chu, Bryan Clarkson, Sara Cooper, Catherine Creech, José de la Torre, Wilfred Denetclaw, Kathleen Duncan, Amelia Edwards, Karen Erickson, Megumi Fuse, Joseph Gorga, Brinda Govindan, L Green, Paul Hankamp, Holly Harris, Zheng-Hui He, Stephen Ingalls, Peter Ingmire, J Jacobs, Mark Kamakea, Rhea Kimpo, Jonathan Knight, Sara Krause, Lori Krueger, Terrye Light, Lance Lund, Leticia Márquez-Magaña, Briana McCarthy, ***Linda McPheron***, Vanessa Miller-Sims, Christopher Moffatt, Pamela Muick, Gloria Nusse, K Okimura, Sally Pasion, Robert Patterson, Pleuni Pennings, Blake Riggs, Joseph Romeo, Scott Roy, Tatiane Russo-Tait, Lisa Schultheis, Lakshmikanta Sengupta, Greg Spicer, Andrea Swei, Jennifer Wade, Julia Willsie, Loretta Kelley, Melinda Owens, Gloriana Trujillo, Carmen Domingo, Jeffrey Schinske, and Kimberly Tanner, 2019. **Investigating Instructor Talk in Novel Contexts: Widespread Use, Unexpected Categories, and an Emergent Sampling Strategy,** *Cell Biology Education – Life Sciences,* 18 (3): 1-23; doi.org/10.1187/cbe.18-10-0215

McPheron, L. J. and Mills, N. J. 2007. Discrimination learning of color-odor compounds in a paper wasp (Hymenoptera: Vespidae: Pompilinae: *Mischocyttarus flavitarsis*). *Entomol. Gener.,* **29 (2/4)**: 125-134.

McPheron, L. J. and Mills, N. J. 2007. The influence of visual and olfactory cues on the foraging behavior of the paper wasp (Hymenoptera: Vespidae: Pompilinae: *Mischocyttarus flavitarsis*. *Entomol. Gener.,* **30 (2):** 105-118.

McPheron, L. J. 2002. Learning color and odor in a paper wasp*, Mischocyttarus flavitarsis. Animal Behavior*, in press.

McPheron, L. J., Seybold, S. J., Storer, A. J., Wood, D. L., Ohtsuka, T. and Kubo, I. 1997. Effects of Enantiomeric Blend of Verbenone on Response of *Ips paraconfusus* to Naturally Produced Aggregation Pheromone in the Laboratory. *Journal Chemical Ecology*, **23**:2825-2839.

McPheron, L. J. and Broce, A. B. 1996. Environmental Components of Pupariation-Site Selection by the Stable Fly, *Stomoxys calcitrans* (Diptera: Muscidae). *Annals of the Entomol. Soc. Amer*., **25**: 665-671.

McPheron, L. J. and Broce, A. B. 1995. Influence of Environmental Factors on the Wandering Phase and Pupariation in Stable Fly, *Stomoxys calcitrans*, larvae. *Physiol. Entomol*., **20**: 337-342.

Presentations at Professional Meetings

"Guided Activity to Teach Convergent and Divergent Evolution," American Society for Microbiology Conference for Undergraduate Educators, Phoenix, AZ, Nov. 17-19, 2024.

"Using Health Claims on Food Packages to Teach Critical Thinking," American Society for Microbiology Conference for Undergraduate Educators, Tysons, VA, Aug. 1-4, 2019.

"Does Excessive Scientific Terminology Interfere with Student's Ability to Learn Biology Concepts?" American Society for Microbiology Conference for Undergraduate Educators, Austin, TX, May 28-31, 2015.

"Does Scientific Terminology Affect Students' Ability to Learn Biology?" Society for Advancement of Biology Education Research (SABER West), Irvine, CA, Jan. 14-15, 2017.

"Comparing Oral and Written Assessments of Science Skills." Innovations Conference (on Inspiring Innovation in Community College Teaching), San Diego, CA, Feb. 2011.

"Survey Results of Postdoctoral Appointees at UC Berkeley." Annual Conference of the AAMC Group on Graduate Research, Education, And Training, Hamilton, Bermuda, Oct. 1999.

"The influence of visual and olfactory cues on the foraging behavior of the paper wasp, *Mischocyttarus flavitarsis.*" International Foraging Conference, Santa Cruz, CA, July1998.

"Discrimination Learning of Color-Odor Compounds in a Paper Wasp, *Mischocyttarus flavitarsis*." Animal Behavior Meeting, Flagstaff, AZ, Aug. 1996.

"Color and Odor Learning in a Paper Wasp, *Mischocyttarus flavitarsis*." ESA- National Meeting, Las Vegas, NV, Dec. 1995.

"Learning and Foraging Behavior in a Wasp*, Mischocyttarus flavitarsis.*" ESA-National Meeting, Indianapolis, IN.

"The Role of Associative Learning in the Foraging Behavior of a Predatory Wasp, *Mischocyttarus flavitarsis."* Animal Behavior Meeting, Davis, CA.

"The Role of Associative Learning in the Foraging Behavior of a Predatory Wasp, *Mischocyttarus flavitarsis."* ESA-National Meeting, Baltimore, MD.

"Effects of Verbenone on Response of *Ips paraconfusus* to Naturally Produced Pheromones in the Laboratory." California Forest Pest Action Council: 38th Annual Meeting, Sacramento, CA

"Effects of Environmental Parameters on Pupation Site Selection in the Stable Fly (Diptera: Muscidae)". XVIII International Congress of Entomology, Vancouver, B. C., Canada, July 1988 (Poster presentation).

"Environmental Components of Pupation Site Selection in the Stable Fly, *Stomoxys calcitrans*". ESA-North Central Branch, Des Moines, IA

"The Effects of Environmental Parameters on Pupation Site Selection in the Stable Fly." Entomological Society of America (ESA)-National Meeting, Reno, NV

Community Service

Co-Founder of Women in Life Sciences, a graduate women's professional organization, UC Berkeley;

- Founder and President of this group devoted to supporting and retaining women in the sciences
- organized professional and community activities for women scientists
- developed a course on women in science
- led seminars on topics such as Dual-career couples, affirmative action, family and careers, history of women in the sciences, and job search skills

Invited Testimony for the President's Council of Advisors on Science and Technology "The Role of the Federal Government in Expanding the Number of Women in Science and Engineering", Berkeley, CA.

- invited by the UC administration to give a speech to the federal committee
- provided them with recommendations on how to attract and retain women in the sciences.

Workshop Leader: Expanding Your Horizons Conference, Mills College, Oakland CA, March, 1992, and March, 1993.

Coach, high school girls' soccer, Albany High School, CA. . Licensed soccer coach. Recreational and competitive team coach for 20 years.

Archery Instructor –Level 1, certified summer, 2012.

Ph.D. Dissertation (UC Berkeley)

The role of associative learning in the foraging behavior of *Mischocyttarus flavitarsis*.

Dissertation Committee:

Nicholas J. Mills, Div. Insect Biology; *dissertation chair*
David L. Wood, Div. Insect Biology
Mary E. Power, Dept. Integrative Biology

Awards and Honors

Biology Scholar's Program recipient, 2014 – 2015.
Faculty Enhancement Program Award, ASM Conference for Undergraduate Educators May 2015

Grants

Mini-grant from Teaching and Learning Center, Berkeley City College, Spring 2012
Mini-grant from Teaching and Learning Center, Berkeley City College, Spring 2011
Mini-grant from Teaching and Learning Center, Berkeley City College, Fall 2010

References

teaching:

Jonathan Siekmann, *Ph.D.* Asst. Professor. Asst. Professor, City College San Francisco, 50 Phelan Ave., SanFrancisco, CA 94112. (415) 452-5056 jsiekmann@ccsf.edu

Barbara Des Rochers, *Ph.D.* *Chair,* Biology Dept., Berkeley City College, 2050 Center St., Berkeley CA 94704. (510) 866-1129 bdesrochers@peralta.edu

Joseph Reyes, *Ph.D.* Dept. Chair, Prof. Biology, City College San Francisco, 50 Phelan Ave., San Francisco, CA 94112. (415) 239-3581 jreyes@ccsf.edu

education and science pedagogy:

Kimberly Tanner, *Ph.D.* Asst. Professor. SEPAL Director, Dept. of Biology, San Francisco State University, 1600 Holloway Ave., San Francisco, CA 94132. (415) 728-1062 kdtanner@sfsu.edu

research activities:

Nicholas J. Mills, *Ph.D.* Professor. Dept. of Environmental Science, Policy & Management, Wellman Hall, University of California, Berkeley, CA 94720. (510) 642-1711 nmills@berkeley.edu