

# Shawn T. Schwartz

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## Education

- 2021- **Stanford University**  
Ph.D. in Computational Cognitive Neuroscience (Beginning September 2021)  
*Primary Advisor:* Prof. Anthony D. Wagner
- 2019-2021 **University of California, Los Angeles (UCLA)**  
M.S. in Biology (Expected Fall 2021)  
*Thesis:* A novel quantitative workflow for high-throughput organismal color pattern analysis  
*Primary Advisor:* Prof. Michael E. Alfaro  
*Thesis Committee:* Profs. Greg Grether, Felipe Zapata, Michael Alfaro (Chair)
- 2015-2019 **University of California, Los Angeles**  
B.S. in Cognitive Science, Specialization in Computing (*Highest Departmental Honors*)  
*Honors Thesis:* Choosing risks and rewards: Memory for positive and negative item-location associations  
*Thesis Advisor:* Prof. Alan D. Castel
- B.S. in Biology, Specialization in Computing (*Departmental Honors*)  
*Honors Thesis:* The role of big data and machine learning: Methods for assessing macroevolutionary dynamics of color pattern diversity in coral reef fishes  
*Thesis Advisor:* Prof. Michael E. Alfaro

## Awards and Honors

- 2021 Honorable Mention, National Science Foundation Graduate Research Fellowship (NSF GRFP)
- 2020 J. Frank Yates Student Conference Diversity & Inclusion Award, Psychonomic Society (\$1,000)
- 2020 Graduate COVID-19 Impact Grant, UCLA (\$1,456)
- 2020 IDRE Early Career Research Day Best Poster Award, UCLA
- 2020 Chancellor's Service Award, UCLA
- 2020 Timothy Chheang Memorial Scholarship Award, Department of Psychology, UCLA (\$1,000)
- 2020 Highest Departmental Thesis Honors, Psychology, UCLA
- 2020 Departmental Thesis Honors, Ecology and Evolutionary Biology, UCLA
- 2020 Dean's Prize Nominee for Excellence in Undergraduate Faculty-Mentored Research, UCLA
- 2019 Distinguished Care Extender of the Rotation, UCLA Health - Santa Monica Medical Center

## Research and Teaching Interests

### Cognitive Psychology & Neuroscience

- Memory selectivity, value-directed remembering, learning, attention, cognitive control, metacognition, and associative memory
- Neural mechanisms of visuospatial memory encoding, retrieval, strategic control processes, and flexible readout
- Applications of neural networks to model both human and non-human visual intelligence
- Classroom studies of memory, metacognition, and test anxiety to develop evidence-based teaching strategies

### Macroevolutionary Biology

- Comparative phylogenetics and macroevolution of phenotypically diverse vertebrates
- Developing novel quantitative approaches for studying organismal color pattern evolution
- Developing high-throughput pipelines with deep learning for phenomic-scale classification in an era of big data

## Publications

### PEER-REVIEWED JOURNAL ARTICLES

7. 2021 Snedden, C. E.\*, Makanani, S. K.\*, **Schwartz, S. T.**, Gamble, A., Blakey, R. V., Borremans, B., Helman, S. K., Espericueta, L., Valencia, A., Endo, A., Alfaro, M. E., & Lloyd-Smith, J. O. (2021). SARS-CoV-2: Cross-scale insights from ecology and evolution. *Trends in Microbiology*. <https://doi.org/10.1016/j.tim.2021.03.013>  
\*Equal Contribution
6. 2021 Siegel, A. L. M., **Schwartz, S. T.**, & Castel, A. D. (2021). Selective memory disrupted in intra-modal dual-task encoding conditions. *Memory & Cognition*. <https://doi.org/10.3758/s13421-021-01166-1>
5. 2021 Silaj, K. M., **Schwartz, S. T.**, Siegel, A. L. M., & Castel, A. D. (2021). Test anxiety and metacognitive performance in the classroom. *Educational Psychology Review*. <https://doi.org/10.1007/s10648-021-09598-6>
4. 2020 Whatley, M. C., Siegel, A. L. M., **Schwartz, S. T.**, Silaj, K. M., & Castel, A. D. (2020). Younger and older adults' mood and expectations regarding aging during COVID-19. *Gerontology and Geriatric Medicine*, 6, 1-9. <https://doi.org/10.1177/2333721420960259>
3. 2020 **Schwartz, S. T.**, Siegel, A. L. M., & Castel, A. D. (2020). Strategic encoding and enhanced memory for positive value-location associations. *Memory & Cognition*, 48, 1015-1031. <https://doi.org/10.3758/s13421-020-01034-4>

2. 2019 Alfaro, M. E., Karan, E. A., **Schwartz, S. T.**, & Shultz, A. J. (2019). The evolution of color pattern in butterflyfishes (Chaetodontidae). *Integrative and Comparative Biology*, 59(3), 604-615. <https://doi.org/10.1093/icb/icz119>
1. 2018 Dang, J., Lin, B., Yuan, J., **Schwartz, S. T.**, Shah, R. M., & Garg, N. K. (2018). Smart access to 3D structures. *Nature Reviews Chemistry*, 2(7), 95-96. <https://doi.org/10.1038/s41570-018-0021-y>

#### MANUSCRIPTS UNDER REVIEW

1. **Schwartz, S. T.**, & Alfaro, M. E. (under review). *Sashimi*: Automatic high-throughput pipeline for organismal image segmentation using deep learning. Manuscript under review.
2. Siegel, A. L. M., **Schwartz, S. T.**, & Castel, A. D. (under review). Metacognitive Monitoring and Prioritization in Visuospatial Memory. Manuscript under review.
3. Murphy, D. H., Silaj, K. M., **Schwartz, S. T.**, Rhodes, M. G., & Castel, A. D. (under review). An own-race bias in the recall of associative information. Manuscript under review.
4. Richmond, L. L., Kearley, J., **Schwartz, S. T.**, & Hargis, M. B. (under review). Take a load off: Examining partial and complete cognitive offloading of medication information. Stage 1 Registered Report under review.
5. Murphy, D. H., **Schwartz, S. T.**, & Castel, A. D. (under review). Responsible retrieval: The dynamics of free recall when responsibly remembering. Manuscript under review.

#### MANUSCRIPTS IN PREPARATION

1. **Schwartz, S. T.**, Tsai, W. L. E., Karan, E. A., & Alfaro, M. E. (in prep). *Charisma*: an R tool to automatically determine discrete color classes for high-throughput color pattern analysis. Manuscript in preparation.
2. **Schwartz, S. T.**, Silaj, K. M., Brar, N., & Castel, A. D. (in prep). College students anxiety, preparedness, and perceptions of remote learning effectiveness during COVID-19: A classroom study. Manuscript in preparation.
3. **Schwartz, S. T.**, Siegel, A. L. M., & Castel, A. D. (in prep). Burgers over broccoli: Better spatial memory for high-calorie over low-calorie food items. Manuscript in preparation.
4. Siegel, A. L. M., **Schwartz, S. T.**, Eich, T. S., & Castel, A. D. (in prep). Examining how encoding and retrieval strategies contribute to prioritization in memory. Manuscript in preparation.
5. Siegel, A. L. M., **Schwartz, S. T.**, & Eich, T. S. (in prep). Knowledge of health-related information across the adult lifespan: Is error correction dependent on confidence? Manuscript in preparation.

6. Silaj, K. M., **Schwartz, S. T.**, Castel, A. D., & McDonough, I. M. (in prep). Is the future bright or bleak? Assessing perceptions of the past and future in younger and older adults. Manuscript in preparation.
7. Whatley, M. C., **Schwartz, S. T.**, Block, J. B., & Castel, A. D. (in prep). One bad apple: Visual memory and misinformation for the Apple logo. Manuscript in preparation.

## Conference Presentations and Invited Talks

\* Presenting Author, † Equal Contribution

21. 2021 **Schwartz, S. T.\*** (2021, April). *College students anxiety, preparedness, and perceptions of remote learning effectiveness during COVID-19: A classroom study.* **Talk** presented virtually at the National Center for the Integration of Research, Teaching and Learning Network Teaching-as-Research Conference. April 15.
20. 2021 Karan, E. A.\* †, **Schwartz, S. T. †**, Perillo, M., & Alfaro, M. E. (2021, January). *Evolutionary and functional consequences of sexually dimorphic color pattern diversity in Labrid fishes.* **Talk** presented virtually at the UCLA Department of Ecology & Evolutionary Biology EcoEvoPub Seminar Series. January 14.
19. 2021 **Schwartz, S. T.\***, Tsai, W. L. E., Karan, E. A., & Alfaro, M. E. (2021, January). *Charisma: An R tool to automatically determine discrete color classes for high-throughput color pattern analysis.* **Talk** presented virtually at the Society for Integrative and Comparative Biology (SICB) Virtual Annual Meeting. January 3.
18. 2021 **Schwartz, S. T.\***, & Alfaro, M. E., (2021, January). *Sashimi: Automatic high-throughput pipeline for organismal image segmentation using deep learning.* **Poster** presented virtually at the Society for Integrative and Comparative Biology (SICB) Virtual Annual Meeting. January 3.
17. 2021 Karan, E. A.\* †, **Schwartz, S. T. †**, Perillo, M., & Alfaro, M. E. (2021, January). *Its not just a phase: Evolutionary and functional consequences of sexually dimorphic color pattern diversity in Labrid fishes.* **Talk** presented virtually at the Society for Integrative and Comparative Biology (SICB) Virtual Annual Meeting. January 3.
16. 2021 Weller, H. I.\*, **Schwartz, S. T.**, Karan, E. A., & Lord, N. P. (2021, January). *Recolorize: a flexible R package for color classification.* **Talk** presented virtually at the Society for Integrative and Comparative Biology (SICB) Virtual Annual Meeting. January 3.
15. 2020 **Schwartz, S. T.\* †**, Silaj, K. M.\* †, Brar, N. K., & Castel, A. D. (2020, December). *Anxiety, preparedness, and students perceptions of remote learning effectiveness during COVID-19.* **Talk** presented virtually at CogFog, Bjork Learning and Forgetting Lab. December 11.

14. 2020 **Schwartz, S. T.\* †**, Silaj, K. M.\* †, Siegel, A. L. M., & Castel, A. D. (2020, November). *Examining the effects of test anxiety on metacognitive performance*. **Poster** presented virtually at the Psychonomic Society's 61st Annual Meeting online. November 21. **\*J. Frank Yates Student Conference Award recipient for supporting diversity & inclusion in cognitive psychology\***
13. 2020 Siegel, A. L. M.\* †, **Schwartz, S. T.\* †**, & Castel, A. D. (2020, November). *Selective memory disrupted in intra-modal dual-task encoding conditions*. **Poster** presented virtually at the Psychonomic Society's 61st Annual Meeting online. November 19.
12. 2020 **Schwartz, S. T.\* †**, Siegel, A. L. M.†, & Castel, A. D. (2020, November). *Selective memory disrupted in intra-modal dual-task encoding conditions*. **Talk** presented live at the Virtual Bay Area Memory Meeting (BAMM!). November 12.
11. 2020 Silaj, K. M.\* †, **Schwartz, S. T.\* †**, Siegel, A. L. M., & Castel, A. D. (2020, September). *Test anxiety and metacognitive performance in the classroom*. **Poster** presented virtually at the 2020 UC Psychology Teaching & Learning Virtual Conference online. September 18.
10. 2020 Siegel, A. L. M.\*, **Schwartz, S. T.**, & Castel, A. D. (2020, April). *Age-related differences in local and global metacognitive accuracy in a visuospatial selectivity task*. **Poster** selected to be presented at the Cognitive Aging Conference in Atlanta, GA, USA. April 16. **\*Cancelled due to COVID-19\***
9. 2019 **Schwartz, S. T.\***, & Alfaro, M. E. (2019, November). *High-throughput phenoscaping using deep learning for accurate automatic instance segmentation of fish images*. **Poster** presented at the UCLA Institute for Digital Research & Education Early Career Researcher Day in Los Angeles, CA, USA. November 20. **\*Awarded 1 of 4 Best Poster Awards of 40 posters\***
8. 2019 Siegel, A. L. M.\* †, **Schwartz, S. T.\* †**, & Castel, A. D. (2019, November). *Memory and metamemory for the location of items: The effects of information importance and encoding difficulty*. **Poster** presented at the Psychonomic Society's 60th Annual Meeting in Montréal, Quebec, Canada. November 16.
7. 2019 Whatley, M. C.\* †, **Schwartz, S. T.\* †**, Block, J. B., Siegel, A. L. M., & Castel, A. D. (2019, November). *One bad apple: Visual memory and misinformation for the Apple logo*. **Poster** presented at the Psychonomic Society's 60th Annual Meeting in Montréal, Quebec, Canada. November 15.
6. 2019 **Schwartz, S. T.\***, Karan, E. A., & Alfaro, M. E. (2019, May). *Using machine learning to quantify color pattern diversity in Butterflyfishes (Chaetodontidae)*. **Poster** presented at the 22nd Annual UCLA Biology Research Symposium in Los Angeles, CA, USA. May 22.
5. 2019 **Schwartz, S. T.\***, Siegel, A. L. M., & Castel, A. D. (2019, May). *Risks and rewards: Memory for positive and negative item-location associations*. **Poster** presented at the 22nd Annual UCLA Undergraduate Research Poster Day in Los Angeles, CA, USA. May 21. **\*UCLA Dean's Research Prize Nominee\***
4. 2019 **Schwartz, S. T.\***, Siegel, A. L. M., & Castel, A. D. (2019, May). *Risks and rewards: Memory for positive and negative item-location associations*. **Poster** presented at the 28th Annual UCLA Psychology Undergraduate Research Conference in Los Angeles, CA, USA. May 10.

3. 2019 **Schwartz, S. T.\***, Siegel, A. L. M., & Castel, A. D. (2019, May). *Memory for positive and negative item-location associations*. **Poster** presented at Whittier College's 17th Annual Psi Chi Psychology Undergraduate Research Conference in Whittier, CA, USA. May 4.
2. 2019 Karan, E. A.\* †, & **Schwartz, S. T.\* †** (2019, May). *Quantitative approaches to studying color pattern evolution*. **Invited Guest Lecture** given at Claremont McKenna College, W. M. Keck Science Center Department of Biology in Claremont, CA, USA. May 2.
1. 2019 **Schwartz, S. T.\*** (2019, May). *Risks and rewards: Memory for positive and negative item-location associations*. **Talk** for Highest Departmental Honors Thesis Seminar given at the UCLA Department of Psychology in Los Angeles, CA, USA. May 1.

## Press Coverage of Research

3. 2021 "High-Stakes testing vs. anxiety and metacognition." *Teacher Toolkit*. (<https://www.teachertoolkit.co.uk/2021/03/30/test-anxiety/>) by McGill, R. M. (2021, March 30).
2. 2020 "Early Career Research Day winner improves neural network training for biological research." *UCLA Institute for Digital Research & Education*. (<https://idre.ucla.edu/featured/early-career-research-day-winner-improves-neural-network-training-for-biological-research>) by Ventura, K. (2020, July 1).
1. 2018 "Student-developed tool brings 3D molecular models to smartphone screen." *The Daily Bruin*. (<https://dailybruin.com/2018/07/30/student-developed-tool-brings-3d-molecular-models-to-smartphone-screen>) by Nakahara, E. (2018, July 30).

## Technical and Laboratory Skills

### PROGRAMMING (12 YEARS EXPERIENCE)

- *Languages*: Python, R, MATLAB, C++, PHP, JavaScript, HTML5, CSS3, SQL
- *Machine Learning*: TensorFlow, Keras, AlexNet, Mask R-CNN, deep learning
- *Imaging Analyses in R*: image adjacency analysis, boundary strength analysis, color spaces
- *Other Tools*: regular expressions, Jekyll, jsPsych, Psychtoolbox, Collector, Jmol

### APPLICATIONS

- Bash, Git, L<sup>A</sup>T<sub>E</sub>X, Markdown, SPSS, Microsoft Excel, R-Studio, Xcode, Jupyter Notebook, ImageJ
- Adobe Photoshop, Adobe Illustrator, Adobe InDesign

### STATISTICS

- **Statistical Analyses**: analysis of variance, correlation, chi-square, regression, hierarchical linear (multilevel) modeling (HLM), principal component analysis (PCA), exploratory

and confirmatory factor analysis, Bayesian inference, multidimensional scaling, t-SNE, partitional K-means & hierarchical agglomerative clustering, dendrogram analysis

- **Phylogenetic Comparative Methods:** phylogenetic generalized least squares (PGLS), phylogenetic independent contrasts, ancestral state reconstruction, Bayesian Analysis of Macroevolutionary Mixtures (BAMM), Markov chain Monte Carlo (MCMC)

#### LABORATORY

- Functional Neuroimaging (fMRI) & FMRI Software Library (FSL)
- Titrations, Micropipetting, Gel Electrophoresis, Mass Spectrometry

## Teaching Experience

### Research Methods in Psychology (PSYCH 100B), UCLA

- *Teaching Associate*, Fall 2020, 20 Undergraduates (TA to Dr. Iris R. Firstenberg)
- *Teaching Associate*, Summer 2020, 20 Undergraduates (TA to Dr. Amber A. Ankowski)

### Biology and Social Justice (EE BIOL 156), UCLA

- *Teaching Associate*, Winter 2021, 42 Undergraduates (TA to Prof. Michael E. Alfaro)
- *Teaching Associate*, Summer 2020, 38 Undergraduates (TA to Prof. Michael E. Alfaro)
- *Teaching Assistant*, Fall 2019, 41 Undergraduates (TA to Prof. Michael E. Alfaro)

### Evolutionary Medicine (EE BIOL 185), UCLA

- *Teaching Associate*, Spring 2021, 26 Undergraduates (TA to Prof. Pamela J. Yeh & Dr. Rachel Prunier)
- *Teaching Assistant*, Spring 2020, 36 Undergraduates (TA to Prof. Pamela J. Yeh & Dr. W. Tyler McCraney)

### Practical Computing for Evolutionary Biologists and Ecologists (EE BIOL C177/C234), UCLA

- *Teaching Assistant*, Winter 2020, 14 Undergraduates, 5 Graduate Students (TA to Prof. Michael E. Alfaro)

### Introduction to R for Ecology and Evolutionary Biology (EE BIOL 201), UCLA

- *Workshop Assistant*, Fall 2019, 21 Graduate Students (Assistant to Profs. James O. Lloyd-Smith, Noa Pinter-Wollman, Kirk E. Lohmueller, & Michael E. Alfaro)

## Professional Development

### UCLA Center for the Integration of Research, Teaching, and Learning (CIRTL@UCLA)

2020-2021 *CIRTL Practitioner*

- Systematically use evidence-based teaching methods to advance teaching and learning practices
- Designed and implemented a "Teaching-as-Research" project during Spring & Summer 2020 investigating the benefits of retrieval practice in remote learning contexts during the COVID-19 pandemic
- Working towards completing requirements for the *CIRTL Scholar* certification

## Leadership and Academic Service

### Los Angeles County Science and Engineering Fair

Mar. 2020 *Volunteer Judge: Mathematics & Computer Sciences Senior Division*

- Judged and interviewed 18 high school seniors about their projects
- Ranked projects for awards with caucus of expert computer scientists

### Splash@UCLA

Feb. 2020 *Volunteer Teacher*

Designed and taught two, one-day free science classes for low income high school students:

1. Why do we remember and why do we forget? Examining the role of value and selectivity in visuospatial memory, learning, and attention
2. The evolution of color pattern in reef fish

### UCLA Bruin Day for Newly Admitted Students

2016-2019 *Volunteer*

- Volunteer annually to assist newly admitted students experience what it means to be a "True Bruin"
- Help students submit their Statement of Intent to Register (SIR) for UCLA
- Teach students about the world-class academic, research, volunteer, and job opportunities available at UCLA

### UCLA Undergraduate Admission

Aug. 2019 *Volunteer Tour Guide for Academic Excellence Tour*

- Led a guided campus tour for celebrated scholars and their families considering applying to UCLA as part of the *Celebrating Academic Excellence Reception* with UCLA Undergraduate Admission



## **UCLA Center for Accessible Education (CAE)**

2017-2019 *Volunteer Notetaker*

Provided quality, detailed notes for students with registered accommodations, for the following courses:

- Psychology 20: Introduction to MATLAB Programming (Winter 2017)
- Psychology 100B: Research Methods in Psychology (Fall 2017)
- Psychology 124C: Human Memory (Winter 2018)
- Ecology & Evolutionary Biology 186: Evolutionary Medicine: Clinical Perspective on Medical, Surgical, and Psychiatric Disorders (Summer 2018)

## **Reviewing Experience**

Association for Psychological Science (APS) 2020, 2021 Student Research Award

## **Undergraduates Mentored**

### **UCLA Ecology and Evolutionary Biology:**

Jonathan Chau, May 2021 – Present  
Kevin Wang, April 2021 – Present  
Austyn Adams, April 2021 – Present  
Trevor Brokowski, January 2021 – Present  
Mackenzie Perillo\*, May 2020 – Present  
Maya Chari, September 2019 – November 2020  
Sean Webster\*\*, February 2020 – June 2020  
Bruce Zhang, February 2020 – June 2020  
Aubrey Butler, October 2019 – January 2020  
Charles Wang, April 2019 – September 2019

### **UCLA Psychology:**

Nimrat Brar\*, May 2020 – Present  
Connie Chen, October 2020 – March 2021  
Kyle Xu, January 2020 – June 2020

*\*Supervised undergraduate honors thesis project, \*\*Supervised undergraduate senior capstone project*

## **Society Membership**

2020 – Society for Integrative and Comparative Biology (SICB)  
2019 – Psychonomic Society  
2019 – Society for the Study of Evolution (SSE)  
2019 – American Society of Naturalists (ASN)  
2019 – Society of Systematic Biologists  
2018 – American Psychological Association (APA)  
2018 – Association for Psychological Science (APS)

## Professional Technical Experience

### Associated Students UCLA (ASUCLA)

2020-2020 *Freelance Designer & Web Developer*

- Solely designed, programmed, and maintained the Virtual UCLA New Student Orientation website with ASUCLA in rapid time with the sudden shift to an online orientation in response to the COVID-19 pandemic ([asucla.ucla.edu/summer-from-the-union](https://asucla.ucla.edu/summer-from-the-union))
- Aided in managing programming for mass email marketing during this period for the UCLA Store and UCLA Athletics Bruin Team Shop online marketplaces

2016-2019 *Full-Stack Web Developer/Technical Assistant*

- Redesigned entire ASUCLA institutional website and implemented backend for Board Members to access and edit site content ([asucla.ucla.edu](https://asucla.ucla.edu))
- Assisted in designing layout and developed custom JavaScript for the new UCLA Store e-commerce website ([shop.uclastore.com](https://shop.uclastore.com))
- Developed JavaScript kiosk program for historical timeline of UCLA in Ackerman Student Union
- Designed and programmed an [ASUCLA Store Reward Points Checker](#) and digital dynamic menu boards for on-campus restaurants
- Designed, coded, and sent out weekly mass email promotions for 12 UCLA campus stores

### Kidz Dental Care, Porter Ranch, CA; Santa Clarita, CA

2017-2019 *Freelance Designer & Web Developer*

- Designed, built, and maintained pediatric dentistry's responsive websites ([kidzdentalcare.com](https://kidzdentalcare.com), [kidzdentalcare661.com](https://kidzdentalcare661.com))
- Created HIPAA-compliant secure patient information pipeline that generates and transmits secured PDF information forms for a streamlined patient-doctor experience

### LanguageBird<sup>®</sup>, LLC

2016-2018 *Lead Full-Stack Developer*

- Developed and managed dynamic user experience for an accredited online school providing WASC, University of California, and NCAA approved online 1:1 foreign language courses and credit to over 1,000 high school students, worldwide ([languagebird.com](https://languagebird.com))

## **Clinical Internship Experience and Service** (1,315 Total Clinical Service Hours)

### **UCLA Health – Santa Monica Medical Center**

2017-2019 *Care Extender Internship, Department Coordinator Assistant* (814 hours)

- Shadowed out-patient surgeons and radiology technicians for in-patient and emergency department cases, and checked in patients for early-morning surgeries in admissions
- *Department Coordinator Assistant*: Audited fellow Care Extender Volunteers throughout their assigned departments to maintain the quality and integrity of the Care Extender Internship Program

### **UCLA Health – Faculty Practice Group (FPG)**

2017-2018 *Population Health Care Coordinator Intern* (451 hours)

- Outreached to patients via telephone encounters to obtain missing medical procedure records
- Maintained innovative database of UCLA patients' Electronic Medical Records and 9 local hospice agencies for tracking and drawing statistical trends of UCLA hospice referrals to external agencies

### **Providence Tarzana Medical Center**

2014-2015 *Engineering Facilities Intern* (50 hours)

- Assisted clinical staff with errands, clerical duties, and medical technology-related problems; helped patients with ambulatory tasks; discharged patients

## **References**

**Dr. Alan D. Castel, Professor of Psychology, UCLA**  
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**Dr. Michael E. Alfaro, Professor of Ecology and Evolutionary Biology, UCLA**  
michaelalfaro@ucla.edu

**Dr. Naomi I. Eisenberger, Professor of Psychology, UCLA**  
neisenbe@ucla.edu

**Dr. Alexander L.M. Siegel, User Experience Research Scientist, Lyft, Inc.**  
almsiegel@gmail.com

Last updated: May 13, 2021