

## Holly Cooper, M.S. M.D.

**Mailing Address:**  
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Palo Alto, CA 94304

### Training & Education:

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2018-present	<b>Fellowship in Pediatric Endocrinology &amp; Diabetes</b> Stanford University, Stanford, CA
2016-2018	<b>Residency in Pediatrics</b> University of California, Los Angeles, Los Angeles, CA
2015-2016	<b>Internship in Pediatrics</b> University of California, Los Angeles, Los Angeles, CA
2011-2015	<b>Doctorate in Medicine</b> University of California, San Diego School of Medicine, La Jolla, CA
2009-2010	<b>Master of Science, Biology</b> Stanford University, Stanford, CA
2005-2009	<b>Bachelor of Science, Biological Sciences</b> Stanford University, Stanford, CA

### Licensure & Certification:

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2016-present	Medical Board of California, Board Certified, license active through 2020
2018-present	American Board of Pediatrics, Board Certified, 2018

### Professional Memberships:

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2015-	Member, American Association of Pediatrics
2019-	Member, AAP Sections on Endocrinology and LGBT Health & Wellness
2019-	Member, Pediatric Endocrine Society

### Research and QI Experience:

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2019-present	<b><i>Body composition in transgender adolescents after initiation of gender-affirming sex hormone therapy</i></b> <ul style="list-style-type: none"><li>Stanford University Department of Pediatric Endocrinology, Stanford, CA</li><li>Mentor: Tandy Aye</li></ul>
2018-present	<b><i>Fertility preservation in transgender adolescents</i></b> <ul style="list-style-type: none"><li>Stanford University Department of Pediatric Endocrinology, Stanford, CA</li><li>Mentor: Tandy Aye</li><li>Retrospective review of fertility preservation utilization and barriers in transgender adolescents</li><li>Presented as poster at Pediatric Endocrine Society Annual Meeting 2019 &amp; Stanford University 10th Annual Pediatrics Research Retreat</li></ul>
2012	<b><i>Comorbidities, risk factors and treatment response in severe Atopic Dermatitis in children requiring systemic therapy</i></b> <ul style="list-style-type: none"><li>UCSF Department of Pediatric Dermatology, San Francisco, CA</li><li>Mentors: Kelly Cordoro, Erin Mathes</li><li>Role included study design, data collection through retrospective chart review, data entry and organization</li></ul>
2011	<b><i>Prevention and treatment of lymphedema</i></b> <ul style="list-style-type: none"><li>Stanley Rockson Lab at Stanford University Department of Cardiology, Palo Alto, CA</li></ul>

- Mentor: Stanley Rockson
- Duties included recruitment and enrollment of patients, processing of patient samples, data organization and collection as well as assisting physician in clinic visits and punch biopsies and performing measurements on study and non-study patients. Also participated in writing and compiling material for Stanford Lymphatic & Venous Disorders website.

2009-2011 ***Quality improvement for surgical outcomes in a busy outpatient surgical center***

- Surgecenter of Palo Alto, Palo Alto, CA
- Supervisors: Margo Isola, John Cooper
- Data collection, analysis and presentation for ongoing quality improvement, quality assurance and clinical outcomes studies. Studies included infection rates, transfer and hospitalization rates, wound culture isolates, and various protocol compliance rates

2007, 2010 ***Neurochemical effects of an audience in African cichlid fish***

- Russell Fernald Lab at Stanford University Department of Biology, Stanford, CA
- Mentors: Julie Desjardins, Russell Fernald
- Behavioral observations of cichlid fish, Extraction and preservation of blood and brain tissue, ELISA hormonal assays, qRT-PCR. Tank maintenance, feeding.
- Poster Presentation at Summer Undergraduate Research Project (SURP) Poster Session in August 2007.
- Acknowledged participant in peer Reviewed Publication

2008 ***Analysis of passive odontocete acoustic data by manual and automated methods***

- NOAA Southwest Fisheries Science Center, La Jolla, CA
- Mentors: Tina Yack, Jay Barlow
- Analysis of passive odontocete acoustic data. Comparison of manual detection with two automated methods (PAMGUARD and XBAT)
- Acknowledged Participant in non-peer reviewed publication

2008 ***Effects of beta-blockers on learning and memory in zebra fish***

- Stanford University Department of Biology, Pacific Grove, CA
- Mentor: Stuart Thompson
- Duties included study design and methods, training of behaviors through classical conditioning, testing and administration of  $\beta$ -blockers for zebra fish, and analysis of effect of drug on learning in fish.
- Oral Presentation at 45th annual China Point Symposium

## **Publications & Abstracts:**

### ***Publications***

1. Manuscript under review. Chang N, Mariano K, Ganesan L, **Cooper H**, & Kuo K. Gradient Washout and Secondary Nephrogenic Diabetes Insipidus After Brain Injury in an Infant. 2019.
2. Publication in Peer-Reviewed Journal, **Cooper HC**. and DM. Maahs, 50 Years Ago in The Journal of Pediatrics: Cortisol Secretion in Acidotic and Nonacidotic Juvenile Diabetes Mellitus. *J Pediatr*, 2019. 207: p. 175.
3. Peer Reviewed Publication, Acknowledged Participant. Wood LS, Desjardins JK. & Fernald RD. Effects of Stress and Motivation on Performing a Spatial Task. *Neurobiology of Learning and Memory*. Mar 2011; 95(3): 277–285.
4. Non-Peer Reviewed Online Publication, Acknowledged Participant. Yack TM, Barlow JP, Rankin S, & Gillespie D. Testing and validation of automated whistle and click detectors using PamGuard 1.0. *NOAA Technical Memorandum NMFS*. May 2009.

### ***Abstracts and Posters:***

1. Abstract and Poster Presentation, Pediatric Endocrine Society Annual Meeting 2019. Baltimore, MD. April 2019. **Cooper H** & Aye T. Fertility Preservation in Transgender Adolescents.
2. Abstract and Poster Presentation, 10th Annual Pediatrics Research Retreat 2019. Stanford, CA. April 2019. **Cooper H** & Aye T. Fertility Preservation in Transgender Adolescents.
3. Poster Presentation, Summer Undergraduate Research Project (SURP) Poster Session. Stanford, CA. August 2007. **Cooper H**, Desjardins JK. & Fernald RD. Behavioral and physiological effects of an audience in *Astatotilapia burtoni*.

## **Presentations:**

1. "Disorders of Sexual Differentiation." Invited speaker. Stanford University Perinatal Conference. May 31, 2019.
2. "Precocious Puberty." Stanford University Department of Pediatrics Resident Teaching Conference. May 30, 2019.
3. "Endocrine Jeopardy and PREP questions." Stanford University Department of Pediatrics Resident Teaching Conference. April 4, 2019.
4. "Cockayne Syndrome and Glucose Metabolism." Stanford University Department of Endocrinology Grand Rounds. April 3, 2019.
5. "Hypoglycemia." Stanford University Department of Pediatrics Resident Teaching Conference. December 13, 2018.
6. "Tatrogenic Adrenal Insufficiency." Stanford University Department of Pediatric Endocrinology Division Meeting. December 4, 2018.
7. "Propranolol effects spatial memory and anxiety in zebra fish (*Danio rerio*)." Oral Presentation, 45th Annual China Point Symposium. Pacific Grove, CA. June 2008. Cooper H. & Thompson S.

## **Professional & Volunteer Experience:**

2019                    ***Camp de Los Ninos***, Concord, CA  
*Medical staff for Diabetes Youth Families summer camp*

- Diabetes management for overnight camp

2017                    ***Cedars Sinai, Department of Pediatrics***, Los Angeles, CA  
*Freelance illustrator for Newborn Nursery patient pamphlet*

- Creating original illustrations for use in educational pamphlet to be given to patients in the newborn nursery

2014-2015           ***UC San Diego Department of Medical Education, Pediatrics***, San Diego, CA  
*Genetics Module Project Creator and Coordinator*

- Mentors: Christopher Cannavino, Kenneth Lyons Jones, Marilyn Crandall Jones, Keith Vaux
- Creating video-based teaching module covering material in genetics and dysmorphology for use in medical student and resident education
- Incorporating input from experts in field of pediatric genetics and dysmorphology and coordinating with faculty in pediatric residency and medical student programs
- Creating original illustrations for teaching module

2010                    ***Resurge International (formerly Interplast)***, Mountain View, CA  
*Communications & Development Intern*

- Projects involved summarizing primary literature for use in public newsletters and on social media, collection and publications of donor patient stories, and research into possible NGO partnerships
- Supervisor: Liliana Villanueva

2010-2011           ***Lucille Packard Children's Hospital***, Palo Alto, CA  
*Infant Hearing Screening Volunteer*

- Run automated hearing tests on all infants in Well Baby Nursery.
- Supervisor: Mae Medina

2009                    ***US Navy Marine Mammal Program***, San Diego, CA  
*Animal Care and Training Intern*

- Duties included feeding, training, transport and daily care of sea lions and bottlenose dolphins, assisting with research projects data collection and medical procedures

2006, 2007-2009    ***Monterey Bay Aquarium***, Monterey, CA  
*Animal Husbandry and Aquarist Volunteer, Sea Otter Intern*

- Exhibit maintenance and food preparation for fish, mammals, and marine invertebrates, operant training and enrichment for otters, administering oral medications to animals
- Observing medical procedures including river otter physical exam and sea otter intra-abdominal laparoscopic surgery

2008-2009           ***Palo Alto Junior Museum & Zoo***, Palo Alto, CA  
*Animal Husbandry Volunteer*

- Preparation and Feeding. Handling and socializing captive exotic animals. Visiting schools with animals and teaching children about appropriate interactions with wildlife
- Administering oral medications and subcutaneous injections for captive birds and reptiles

2008-2009      **Cherry Chase Pet Hospital**, Sunnyvale, CA  
*Veterinary Hospital Volunteer*

- Preparing vaccines, bloodwork and urinalysis. Taking weights and temperatures and restraining animals. Administering oral medications and subcutaneous injections for domestic cats and dogs
- Assisting veterinarians with exams and procedures including ultrasounds on dogs and cats, x-rays on horses, spay and neuters on cats and dogs, and urethra relocation and enlargement in a cat

2008              **Oakland Zoo**, Oakland, CA  
*Zookeeper Summer Intern*

- Exhibit maintenance and food preparation, Operant training and enrichment
- Ruminant Nutrition Research Project and Lemur Natural History Research Project
- Assisting with physical exams and x-rays on goats and fruit bats and acupuncture and physical therapy on a giraffe

### **Other Qualifications and Interests:**

- Proficiency in MS Office (PowerPoint, Excel, Word, OneNote), Photoshop, PageMaker, Electronic Medical Records (Epic, CPRS, AllScripts, NextGen, Serner)
- Working knowledge of Spanish
- Experience performing basic science research with laboratory techniques and clinical research with study design, IRB application, and subject recruitment
- Advanced Open Water Scuba Certified
- Photography and painting with acrylics (portfolio available upon request)