

# Michael Dacre

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## EDUCATION

M.D. Stanford School of Medicine	2019–2022
Post-Baccalaureate, University of California at Berkeley Extension	2014–2017
B.S. in Forensic Science (Hons), University of Central Lancashire, UK	2003–2006

- Honors Thesis: “The use of the auricular surface of the ilium in estimating adult age at death.”

## PROFESSIONAL EXPERIENCE

### Instruction

Head Teaching Assistant, Basic Life Support, Stanford School of Medicine	Apr 2019–Present
<ul style="list-style-type: none"><li>• Head BLS CPR Instructor for the Medical School</li></ul>	
Teaching Assistant, Student Community Outreach and Physician Support, Stanford School of Medicine	Apr 2020–Jun 2020
<ul style="list-style-type: none"><li>• TA and co-founder of a course dedicated to pairing students with clinicians for the purpose of patient outreach and emotional support during the COVID-19 pandemic</li></ul>	
Teaching Assistant, Walk with Me, Stanford School of Medicine	Jul 2019–Jun 2020
<ul style="list-style-type: none"><li>• TA for a year-long course that pairs medical students with patient partners to facilitate patient-centered medical education</li></ul>	
Teaching Assistant, Wilderness Leadership and Mentorship Skills, Stanford School of Medicine	Apr 2019–Jun 2019
<ul style="list-style-type: none"><li>• Teach medical students wilderness skills to enable them to lead groups in remote locations</li></ul>	
Teaching Assistant, Wilderness Medicine, Stanford School of Medicine	Feb 2016–Jun 2016
<ul style="list-style-type: none"><li>• TA for an advanced wilderness medicine elective for medical students</li></ul>	
Instructor, Wilderness First Aid (WFA), Stanford University Department of Outdoor Education	Feb 2014–Jan 2016
<ul style="list-style-type: none"><li>• Led a number of 16-hour weekend WFA courses, both alone and with a partner</li></ul>	

### Research and Programming

Research Assistant, <a href="#">Quertermous Lab</a> , Stanford School of Medicine	Sep 2018–Dec 2018
<ul style="list-style-type: none"><li>• Second author on project examining influence of genome architecture on coronary artery disease</li></ul>	
Research Professional, <a href="#">Fraser Lab</a> , Stanford University Department of Biology	Jan 2012–Jul 2018
<ul style="list-style-type: none"><li>• Programmer for the lab, supporting multiple projects and doing own research</li><li>• Taught programming skills to incoming graduate students, undergraduates, and high school interns</li><li>• Built, maintained, and managed a large research server cluster for the lab</li></ul>	
Research Assistant, Manning Lab, Salk Institute for Biological Studies	May 2008–Dec 2011
<ul style="list-style-type: none"><li>• Used tyrosine kinases as a system to explore the evolution of early metazoans and teleost fish</li><li>• Worked on several genome projects creating improved kinase gene models by using conserved splice sites</li></ul>	

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## PROFESSIONAL, VOLUNTEER, AND SCIENTIFIC SERVICE

### Leadership

Founding Member, <a href="#">Student Community Outreach Pandemic Service (S-CORPS)</a>	Mar 2020–Present
<ul style="list-style-type: none"><li>Organization to enable medical students to provide support to vulnerable patients during the COVID-19 pandemic</li></ul>	
Lead Medical Student Ambassador, <a href="#">Society for Academic Emergency Medicine Annual Meeting</a>	May 2020
<ul style="list-style-type: none"><li>Assisted with the organization of the annual meeting</li><li>The meeting was cancelled due to COVID-19 travel restrictions</li></ul>	
President, Bay Area Precordial CPR Instructors, LLC	May 2019–Present
<ul style="list-style-type: none"><li>Founded the LLC with three other medical students to teach CPR and first aid in the bay area</li></ul>	
Super Leader, <a href="#">Stanford Wilderness Education Active Orientation Trip (SWEAT)</a> , Stanford SOM	Jan 2019–Sep 2019
<ul style="list-style-type: none"><li>Organized a four-day orientation camping and backpacking trip for 74 first year medical students</li></ul>	
Medical Student Ambassador, <a href="#">Society for Academic Emergency Medicine Annual Meeting</a>	May 2019
<ul style="list-style-type: none"><li>Assisted program committee with execution of annual conference</li></ul>	
Training Officer, <a href="#">Stanford Emergency Medical Services (StEMS)</a>	Jun 2018–Jun 2019
<ul style="list-style-type: none"><li>Taught EMTs clinical skills and organized training sessions taught by other crew chiefs</li></ul>	
County Liaison, <a href="#">Stanford Emergency Medical Services (StEMS)</a>	Jun 2017–Jun 2018
<ul style="list-style-type: none"><li>Finalized negotiations with the county medical authority, allowing StEMS to maintain its status as a medical services provider</li></ul>	
President, <a href="#">Stanford Emergency Medical Services (StEMS)</a>	Jun 2016–Jun 2017
<ul style="list-style-type: none"><li>Overhauled organizational policies, procedures and bylaws to improve accountability and competency</li><li>Worked with the county emergency medical authority to create new policies to enable formal recognition of StEMS as an emergency services provider</li><li>Worked with university officials to expand the reach of StEMS</li></ul>	
Crew Chief, <a href="#">Stanford Emergency Medical Services (StEMS)</a>	Mar 2016–Present
<ul style="list-style-type: none"><li>Run medical command of several large events, including events of 50,000+ attendees</li><li>Operate as the sole medical dispatcher for an annual event of 7,500 attendees</li><li>Provide hands-on care as the first responder on scene for patients</li></ul>	
Web Team Leader, <a href="#">Student Clinical Opportunities for Premedical Leadership (SCOPE)</a>	Mar 2015–Jan 2018
<ul style="list-style-type: none"><li>Completely rebuilt and replaced the organization's suite of aging websites</li></ul>	

### Volunteering

Volunteer, Health Career Collaborative	Sep 2019–Dec 2019
<ul style="list-style-type: none"><li>Mentored high school students at East Palo Alto Academy interested in healthcare careers</li></ul>	
Preclinical Volunteer, <a href="#">Arbor Free Clinic</a>	Oct 2018–Present
<ul style="list-style-type: none"><li>Volunteered as a phlebotomist and as a preclinic student taking H&amp;P prior to resident evaluation</li></ul>	
Emergency Medical Technician, <a href="#">Stanford Emergency Medical Services (StEMS)</a>	May 2014–Present
<ul style="list-style-type: none"><li>Provide EMS services on the Stanford campus and at large events</li></ul>	
Search and Rescue Volunteer, <a href="#">Bay Area Mountain Rescue Unit (BAMRU)</a>	May 2013–Present
<ul style="list-style-type: none"><li>Wilderness EMT, tracker, and type-1 ground searcher</li><li>Teach the annual human tracking training and assist with the medical skills training</li></ul>	
Emergency Dept. Volunteer, <a href="#">Student Clinical Opportunities for Premedical Leadership (SCOPE)</a>	May 2013–Jun 2017

### Ongoing Research

<a href="#">PEARL Lab</a> , Stanford University Medical Center Department of Emergency Medicine	Apr 2019–Present
<ul style="list-style-type: none"><li>In preparation: "Remaking the Road to Residency: A Scoping Literature Review"</li><li>In preparation: "A Qualitative Analysis of Stakeholder Opinions on Residency Application Reform"</li></ul>	

<a href="#">Su Lab</a> , Pediatric Intensive Care Unit, Lucille Packard Children's Hospital	Mar 2019–Present
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- In preparation: "The Influence of 'No-Flow Times' on Neuro-Cognitive Outcomes in Patients Requiring eCPR"

### GRANTS

Medical Scholars Research Grant	May 2019
<ul style="list-style-type: none"><li>• Title: "A Potential Solution to the Burden of Increasing Residency Applications"</li><li>• Value: \$13,200</li></ul>	
XSEDE Startup Allocation MCB130238	Oct 2013
<ul style="list-style-type: none"><li>• Title: "Inferring the genetics of mitochondrial DNA abundance from a Meta-Analysis of GWA studies"</li><li>• Value: \$48,989</li></ul>	

### PUBLICATIONS

**Dacre M**, Hopson L, Branzetti J, Regan L, Sebok-Syer S, Gisondi MA. [The Summer Match: A Qualitative Study Exploring a Two-Stage Residency Match Option](#). *AEM Education and Training*. 2021;5(3):e10616. doi:[10.1002/aet2.10616](#)

Zhao Q, **Dacre M**, et al. [Molecular Mechanisms of Coronary Disease Revealed Using Quantitative Trait Loci for TCF21 Binding, Chromatin Accessibility, and Chromosomal Looping](#). *Genome Biology* 2020;21(1):135. doi:[10/ggz9jn](#).

Tehranchi A, Hie B, **Dacre M**, et al. [Fine-mapping cis-regulatory variants in diverse human populations](#). *eLife*. 2019;8:e39595. doi:[10/gfvswb](#)

Suga H, **Dacre M**, Mendoza A de, Shalchian-Tabrizi K, Manning G, Ruiz-Trillo I. [Genomic Survey of Premetazoans Shows Deep Conservation of Cytoplasmic Tyrosine Kinases and Multiple Radiations of Receptor Tyrosine Kinases](#). *Sci Signal*. 2012;5(222):ra35. doi:[10/f3xnfj](#)

Manning G, Reiner DS, Lauwaet T, **Dacre M**, et al. [The minimal kinome of Giardia lamblia illuminates early kinase evolution and unique parasite biology](#). *Genome Biol*. 2011;12(7):R66. doi:[10/btvr2r](#)

Banks JA, et al. [The Selaginella Genome Identifies Genetic Changes Associated with the Evolution of Vascular Plants](#). *Science*. 2011;332(6032):960. doi:[10/d6zr2g](#)

Srivastava M, et al. [The Amphimedon queenslandica genome and the evolution of animal complexity](#). *Nature*. 2010;466(7307):720. doi:[10/b8skzd](#)

### PRESENTATIONS

**Dacre M** [presenting author], Hopson LR, Regan L, Branzetti J, Gisondi MA. *Is Change Possible? A Qualitative Analysis of Stakeholder Opinions on Reforming the Residency Application Process*. Stanford Innovations in Medical Education Conference (SIMEC VI). Stanford, CA. June 2021.

**Dacre M** [presenting author], Tam L, Chavez, J, Montacute T, Jee O, Mesias M, Schillinger E. *How Medical Students Can Help: Educating Medical Students and Enhancing Patient Support During the COVID-19 Crisis* Society for Teachers of Family Medicine Conference on Medical Student Education. February 2021.

**Dacre M** [presenting author], Mesias M, Schillinger E. *Improving Pre-Clerkship Education and Patient Care in the Era of Telemedicine* Society for Teachers of Family Medicine Conference on Medical Student Education. February 2021.

**Dacre M**, Hopson LR, Branzetti J, Regan L, Sebok-Syer S, Gisondi MA. *Summer Match: A Qualitative Study Exploring a Two-Stage Residency Match Option*. NRMP / Right Resident, Right Program, Ready Day One Retreat. December 18, 2020.

**Dacre M** [presenting author], Chambers D, Branzetti J, Hopson LR, Regan L, Stave C, Gisondi MA. *The Residency Application Process: Can it be fixed?* Association of American Medical Colleges Annual Meeting. November 2020.

**Dacre M** [presenting author], Branzetti J, Hopson LR, Regan L, Sebok-Syer S, Gisondi MA. *Can an Early Decision Program Work for Residency Applications?* 4th Annual collaborative Medical & Bioscience Education Day/SIMEC V. Stanford, CA. October 2020.

Tam L, Lu J, **Dacre M**, Jee O, Chavez J, Schillinger E, Montacute T, Mesias M. *Student Community Outreach and Physician Support (S-CORPS): Educating Medical Students and Enhancing Patient Support During the COVID-19 Crisis* 4th Annual collaborative Medical & Bioscience Education Day/SIMEC V. Stanford, CA. October 2020.

**Dacre M** [presenting author], Branzetti J, Hopson LR, Regan L, Sebok-Syer S, Gisondi MA. [The Summer Match: A Potential Solution to the Burden of Increasing Residency Applications](#). Society for Academic Emergency Medicine, Annual Meeting. Denver, CO. May 2020.

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Lobo V, Deen Johnson V, **Dacre M**, Schillinger E, Poffenberger C. *Panel Discussion: Patient and Family Designed Curricula in All Levels of Physician Education*. Society for Academic Emergency Medicine, Annual Meeting. Denver, CO. May 2020.

**Dacre M**, Sebok-Syer S, Branzetti J, Hopson LR, Regan L, Caretta-Weyer H, Gisondi MA. *The Summer Match: A Potential Solution to the Burden of Increasing Residency Applications in the US*. Asia Conference on Emergency Medicine. New Delhi, India. November 2019.

**Dacre, M** [presenting author]. *The Evolution of Kinase Signaling*. Symposium on Biological Complexity. UC Berkeley, CA. 2010

**Dacre, M** [presenting author]. *An Explosion of Kinase Signaling at the Origin of Multicellularity*. Protein Phosphorylation Meeting. San Diego, CA. 2010

**Dacre, M** [presenting author]. *Exploring the Evolution of the Genome through the Kinome*. Plant and Animal Genome Conference. San Diego, CA, CA. 2010

**Dacre, M** [presenting author]. *The Emergence of Kinase Tumor Pathways*. Mechanisms and Models of Cancer Meeting. San Diego, CA. 2009

**Dacre, M** [presenting author]. *The Evolution of Metazoan Cell Cycle and Growth Control*. 6<sup>th</sup> Annual Cell Cycle Meeting. San Diego, CA. 2009

**Dacre, M** [presenting author]. *Protein Kinase Evolution in Plants*. Joint Genome Institute User Meeting. Walnut Creek, CA. 2009

### HONORS AND AWARDS

Stanford Community Impact Award	2021
Society of Teachers of Family Medicine Foundation Student Scholarship	2020
Biochemical Journal Young Scientist Award	2010

### PROFESSIONAL MEMBERSHIPS

Society for Academic Emergency Medicine	2019–Present
American Academy of Emergency Medicine/Residents and Students Association	2019–Present
American Academy of Family Physicians	2019–Present
Wilderness Medicine Society	2015–Present

### PROFESSIONAL CERTIFICATIONS

AHA Basic Life Support Instructor	2019–Present
Emergency Medical Technician, <a href="#">E106973</a>	2014–Present
Basic Life Support; AHA or Red Cross	2012–Present

### PROGRAMMING

Code available at <https://github.com/MikeDacre>

### SCHOLARLY INTERESTS

Medical education, eCPR, emergency medicine, social emergency medicine, critical care, pain management, wilderness and disaster medicine

### HOBBIES

Backpacking, climbing, cycling, hiking, search and rescue, reading, programming, beach days with my family