

Daniel J. Kats

EDUCATION

Case Western Reserve University, Cleveland, OH

Doctor of Medicine

Expected May 2020

- Longitudinal Patient Navigator Elective
 - Help a newly arrived family of refugees navigate through their healthcare
 - Assigned to a family physician preceptor at an FQHC in Cleveland, OH
- Special Needs Medicine Interest Group
- Cancer Care Elective
 - Three half-days of shadowing Dr. Rod Rezaee (otolaryngology)
 - Attended tumor board
 - Attended medical oncology rounds
- Cancer Survivorship Elective
 - Traveled weekly to a community-based cancer support center to meet cancer survivors, their caretakers, and the support center's staff to learn about various aspects of cancer survivorship
- **Applied Medical Spanish – Intermediate**

Brandeis University, Waltham, MA

Bachelor of Science in Biochemistry

May 2016

- Summa cum laude, GPA 3.85
- Thesis – high honors: “**Inosine 5'-monophosphate dehydrogenase: A collection of mysterious binding sites and regulation**”

TRAINING

Family Planning Conference

Medical Students for Choice, Philadelphia, PA

December 2 – 3, 2017

2017 Inclusion Summit

Ruderman Family Foundation, Cleveland, OH

November 19 – 20, 2017

2017 Annual Meeting

Family Medicine Education Consortium, Cleveland, OH

November 10 – 12, 2017

UltraSound Fest

The Ohio State University, Columbus, OH

October 8, 2017

State-of-the-Art Reviews in Neonatal-Perinatal Medicine

The MetroHealth System, Cleveland, OH

October 7, 2017

The Telluride Experience:

Transforming Mindsets II – Patient Safety Summer School

The Academy of Emerging Leaders in Patient Safety, Telluride, CO

June 11 – 15, 2017

Summer Institute for Medical Students

Hazelden Betty Ford, Rancho Mirage, CA

June 5 – 9, 2017

Abortion Training Institute

Medical Students for Choice, Philadelphia, PA

February 24 – 26, 2017

Global Health Workshop 2017

Cleveland Clinic, Cleveland, OH

February 11, 2017

Implementation Science Conference

Case Western Reserve University, Cleveland, OH

December 2, 2016

The North Coast Conference on Precision Medicine

The Institute for Computational Biology

Case Western Reserve University, Cleveland, OH

September 29, 2016

HONORS AND AWARDS

- Lepow Day oral presentation (see RESEARCH EXPERIENCE) September 28, 2017
 - One of 11 students chosen to give a 10 minute oral presentation (the highest level of achievement), out of over 190 submitted abstracts
- Phi Beta Kappa honor society May 2016
- NIH Computational Neuroscience Training Fellowship (R90DA033463) May 2014 – May 2016
- Attendance scholarships (see TRAINING)
 - Family Planning Conference December 2 – 3, 2017
 - 2017 Annual Meeting November 10 – 12, 2017
 - Transforming Mindsets II – Patient Safety Summer School June 11 – 15, 2017
 - Summer Institute for Medical Students June 5 – 9, 2017
 - Abortion Training Institute February 24 – 26, 2017
 - The North Coast Conference on Precision Medicine September 29, 2016

WORK EXPERIENCE**S.M.Art School**, Newton Centre, MA

Math and Chess Teacher

November 2009 – June 2016

- Developed personalized curricula for each class, based on students' needs
- Required students to teach each other to demonstrate complete understanding, while practicing public speaking
- Built student self-confidence by teaching material several years ahead of grade level

RESEARCH EXPERIENCE

Clinical Informatics, The MetroHealth System, Cleveland, OH

Researcher

May 2017 – Present

- Project: Is overmedication of alcohol withdrawal patients in the intensive care unit causing benzodiazepine-induced psychosis?
- Project: The effects of smoking history variability in electronic health records on the ordering of lung cancer screening tests
 - Does the inaccuracy of smoking history documentation lead to underscreening of patients?
 - Are some specialties/types of providers more likely than others to inappropriately alter smoking exposure documentation?

Hedstrom Laboratory, Brandeis University, Waltham, MA

Undergraduate Researcher

September 2013 – May 2016

Computational Neuroscience Fellow

May 2014 – May 2016

- Project: *Escherichia coli* inosine 5'-monophosphate dehydrogenase lysine acetylation
- Designed and implemented method of *in situ* chromosomal mutations without using biomarkers or scars (in collaboration with [Lovett Laboratory](#))
- Designed and wrote Python scripts to analyze IC₅₀ data of hundreds of inhibitors used with inosine 5'-monophosphate dehydrogenase (IMPDH) from different organisms
 - Goal: Find quick, easy, and cheap way to functionally categorize previously unused strains of IMPDH by using a small set of inhibitors
 - Developed method to reduce entire set of inhibitors to a small representative subset
 - Found drug outliers
 - Visualized data to find patterns, drugs/enzymes of interest

BIBLIOGRAPHY

Oral Presentations

Kats DJ, Tarabichi Y, Kaelber DC, Thornton JD. “The Impact of Smoking History EHR Fluctuations on Lung Cancer Screening Practices.” Lepow Day; Cleveland, OH (2017).

Poster Presentations

Kats DJ, Gollapalli D, Dang Y, Hedstrom L. “[Moonlighting Interactions of IMPDH Affect *Escherichia coli* Growth](#).” SciFest V; Waltham, MA (2015). (Poster #2015.421 presented by **Kats, DJ**.)

Kats DJ, Gollapalli D, Dang Y, Hedstrom L. “[Moonlighting Interactions of *Escherichia coli* IMPDH](#).” SciFest IV; Waltham, MA (2014). (Poster #2014.311 presented by **Kats, DJ**.)

Non-Peer Reviewed

Kats, DJ. [Inosine 5'-monophosphate dehydrogenase: A collection of mysterious binding sites and regulation](#) [honors thesis]. Waltham, MA: Brandeis University (2016).

INSTITUTIONAL SERVICE

Student Committee on Admissions, Case Western Reserve University School of Medicine
Co-Chair January 2017 – January 2018

- Coordinated admissions interviews, tours, and lunches
- Attended Admissions Committee Meetings as a non-voting participant

Peer Handoff, Case Western Reserve University School of Medicine
Volunteer July 2017

- Led small and large group sessions during new student orientation

Diversity Planning Committee, Case Western Reserve University School of Medicine
Member June – July 2017

- Helped plan diversity training for new student orientation
- Focused on making all aspects of training engaging for all students, regardless of background

COMMUNITY SERVICE

Sexual Education, American Medical Women's Association
Volunteer November 2016 – Present

- Taught a three-day sexual education curriculum to underserved Cleveland middle school students
- Topics covered: reproductive anatomy, sexually transmitted infections, contraception, and consent
- Helped incorporate education on consent into the curriculum

Student Run Health Clinic, Case Western Reserve University School of Medicine
Volunteer June 2017 – Present

- Junior Clinician: worked with a fourth year medical student to perform the initial history and physical on patients, followed by presenting to the attending
- Case Manager: worked with a social work student to assess patients' social needs prior to handing off to the Junior and Senior Clinicians
- Front Desk: registered patients for appointments

Anatomy Camp, Case Western Reserve University School of Medicine
Volunteer October – November 2017

- Taught Cleveland middle and high school students general principles of biology related to the healthcare field

Sexual Education, Cuyahoga County Juvenile Detention Center
Volunteer October 2017

- Taught a three-day sexual education curriculum to children in a juvenile detention center
- Topics covered: reproductive anatomy, hygiene, sexually transmitted infections, contraception, consent, and healthy relationships

Doc Opera (Fundraiser), Case Western Reserve University School of Medicine

Dancer (3 performances)

August – December 2016

Dancer (1 performance)

August – December 2017

- Doc Opera is a fundraiser for the Student Run Health Clinic, which consists of dances and skits entirely performed by medical students
- Danced in three performances during 2016: cha-cha, Bollywood fusion, and hip-hop
- Danced in one performance during 2017: fusion dance consisting of Bhangra, Bharatanatyam, and Kathak

SPECTRUM, Waltham Group, Brandeis University, Waltham, MA

Coordinator

November 2014 – May 2016

Volunteer

September 2012 – November 2014

- Ran weekly tutoring, mentoring, and playgroup (with parent social group) programs
- Received [Waltham Special Education Parent Advisory Council's](#) Rising Star (2015) and Kelly Beaumont-Mazzarini Inclusion (2016) awards
- Received [Greater Waltham Arc's](#) "Rags" LaCava Community Service Award (2015)
- Planned and hosted annual educational events about developmental disabilities
- Managed nonprofit budget (over \$6,000)
- Grew volunteer base from thirty to sixty members

Newton-Wellesley Hospital, Newton, MA

Volunteer

April 2010 – August 2015

- Worked in Day Surgery, Emergency Radiology, Medical/Surgical Units, and Emergency Department
- Assisted nurses with paperwork
- Arranged transportation for discharged patients
- Provided blankets, snacks, and water to patients

SKILLS

- Languages
 - Russian: fluent
 - Spanish: intermediate conversational and medical
- Programming in Python, Java, MATLAB, and R
- Basic web development: HTML, CSS, and JavaScript (self-taught)
- Document typesetting: L^AT_EX (self-taught)

INTERESTS

Bollywood films and dance, ballroom dancing, computer programming, baseball, and skiing