

## Curriculum Vitae

**Date Prepared:** April 2, 2024

**Name:** Daniel “Dan” J. Kats

### EDUCATION:

Month/Year	Degree (Honors)	Field(s) of Study	Institution
6/2016	BS, summa cum laude with high honors	Biochemistry (PI: Hedstrom)	Brandeis University
5/2020	MD, honors and distinction in research	Medicine (PIs: Tarabichi, Skotko)	Case Western Reserve University
Expected 2025	Master of Biomedical Informatics (MBI)	Clinical Informatics Emphasis (PI: Hron)	Harvard Medical School

### POSTDOCTORAL TRAINING:

Month/Year(s)	Title	Specialty/Department	Institution
6/2020–6/2023	Resident	Pediatrics (PIs: Skotko, Smith)	Massachusetts General Hospital <i>for Children</i>
7/2023–7/2025	Fellow	Clinical Informatics (PI: Hron)	Boston Children’s Hospital
7/2023–6/2024	Fellow	Biomedical Informatics and Data Science Research Training Program (National Library of Medicine)	Harvard Medical School

### OTHER PROFESSIONAL POSITIONS:

Year(s)	Position Title	Institution	Level of effort (current roles only)
2023–present	Primary Care Physician ( <i>per diem</i> )	Andover Pediatrics	0–1 day/month
2023	Clinical Advisor	Buzzy Health	Edited and wrote clinical content, 1–5 hours per month

### COMMITTEE SERVICE:

#### Local

Year(s)	Name of Committee	Institution/Organization Title of Role(s)
2017	Diversity Planning Committee	Case Western Reserve University School of Medicine Member
2017–2018	Student Committee on Admissions	Case Western Reserve University School of Medicine Co-chair
2020–2023	Advocacy Committee	Massachusetts General Hospital <i>for Children</i> Member

Year(s)	Name of Committee	Institution/Organization Title of Role(s)
2021	Wards Redesign Process Improvement	Massachusetts General Hospital <i>for</i> Children PGY-1 Representative
2021–2022	Housestaff Quality & Patient Safety Committee	Massachusetts General Hospital <i>for</i> Children Pediatrics Representative
2021–2022	Pediatric Rapid Response Team Quality Improvement Project	Massachusetts General Hospital <i>for</i> Children Resident Representative
2023–present	Health Information Management Committee	Boston Children’s Hospital
2023–present	Physician Leadership Council	Boston Children’s Hospital
2023–present	Data and Analytics Services Architecture Review Team	Boston Children’s Hospital
2023–present	Epic EHR Interoperability Workgroup	Boston Children’s Hospital
2023–present	Epic EHR Clinical Decision Support Workgroup	Boston Children’s Hospital
2023–present	Project Mosaic Immersive Design for Enhanced eXperience	Boston Children’s Hospital
2023–present	Penicillin Allergy Inpatient Documentation Quality Improvement Workgroup	Boston Children’s Hospital
2024–present	Translation Improvement Project, Founding Member	Boston Children’s Hospital

#### PROFESSIONAL SOCIETIES:

Year(s)	Society Name Dates of Role(s)	Title of Role(s)
2020–present	American Academy of Pediatrics	Member
2020–present	American Academy of Pediatrics	Member, Massachusetts Chapter
2020–present	American Academy of Pediatrics	Member, Section on Pediatric Trainees
2023–present	American Academy of Pediatrics	Member, Section on Hospital Medicine
2023–present	American Academy of Pediatrics	Member, Section on Epidemiology, Public Health & Evidence
2023–present	American Academy of Pediatrics	Member, Council on Quality Improvement and Patient Safety
2023–present	American Academy of Pediatrics	Member, Council on Clinical Information Technology
2023–present	American Academy of Pediatrics	Member, Section on Hematology/Oncology
2023–present	American Medical Informatics Association	Member
2023–present	American Medical Informatics Association	Member, Public Health Informatics Working Group
2023–present	American Medical Informatics Association	Member, Clinical Decision Support Working Group
2023–present	AMIA Clinical Informatics Fellows	Member

#### EDITORIAL ACTIVITIES:

##### Ad Hoc Reviewer

- *The New England Journal of Medicine* (2023)
- *American Journal of Medical Genetics Part C: Seminars in Medical Genetics* (2023)

**HONORS AND PRIZES:**

Year	Name of Honor/Prize	Awarding Organization	Achievement for Which Awarded
2014–2016	<a href="#">Undergraduate and Graduate Training in Computational Neuroscience (R90)</a>	NIH Brandeis University	Training in Computational Neuroscience
2016	Honor society	Phi Beta Kappa Brandeis University	Undergraduate academics
2019	Abstract scholarship	American Thoracic Society	Four abstracts ( <a href="#">Mini Symposium</a> , <a href="#">Poster 1</a> , <a href="#">Poster 2</a> , <a href="#">Poster 3</a> )
2021	PGY-1 teaching award	Massachusetts General Hospital <i>for</i> Children	Teaching medical students
2022	PGY-2 teaching award	Newton-Wellesley Hospital	Teaching medical and physician assistant students
2023	Patient Safety Star	Massachusetts General Hospital	Safety reporting
2023	Inpatient Care Improvement Award	Massachusetts General Hospital <i>for</i> Children	Residency
2023	<a href="#">Biomedical Informatics and Data Science Fellowship (T15)</a>	NLM/NIH Harvard Medical School	Master of Biomedical Informatics

**REPORT OF FUNDED AND UNFUNDED PROJECTS:****Unfunded Past Projects**

Year(s)	Title of Project Role Brief Description
2021–2023	Sickle Cell Organized Outpatient Transition Investigator (PI: <a href="#">Sharl Azar, MD</a> ) Creating a holistic pediatric to adult transition program for patients with sickle cell disease
2023	Clinician Unfinished Note Dashboard Developer (Supervisor: Chase Parsons, DO, MBI) Using the Boston Children’s Hospital data warehouse, I developed a dashboard that was used to monitor completion status of clinical documentation
2023	Social Assistance Innovation Tool Clinical Advisor Represented the Clinician’s perspective during the development of a social assistance database tool developed by the Boston Children’s Hospital Innovation and Digital Health Accelerator

**Unfunded Current Projects**

Year(s)	Title of Project Role Brief Description
2018–present	Down Syndrome Human Rights Co-investigator (PIs: <a href="#">Brian Skotko, MD, MPP</a> ; <a href="#">Karen Donelan, ScD, EdM</a> ) Creating a global quality of life map for people with Down syndrome

Year(s)	Title of Project Role Brief Description
2021–present	Amoxicillin-clavulanate Dosing Calculator Co-investigator (Co-PI: Iman Moawad, PharmD, BCPPS) Creating a clinical decision support tool for prescribing amoxicillin-clavulanate
2023–present	Penicillin/amoxicillin Allergy Delabeling Project with Brittany Esty, MD, MPH; Mari Nakamura, MD, MPH; Sarah Jones, PharmD, BCPS Developed the guideline for when and how patients' -cillin allergies should be reviewed, and designed the clinical decision support to guide clinicians through the protocol
2023–present	EHR Transition for Patients With Languages Other Than English Co-leader (with Mondira Ray, MD) During the EHR transition from Cerner to Epic, we designed how language preferences should be collected from patients and displayed in the EHR

## REPORT OF LOCAL TEACHING AND TRAINING

### Teaching of Students in Courses

Year(s)	Course Title Type of student/audience	Location Level of effort
2020	Pediatric Clerkship Third year medical students	Case Western Reserve University School of Medicine Designed virtual curriculum and then taught the material over 4 weeks

### Formal Teaching of Residents, Clinical Fellows, and Research Fellows

Year(s)	Title Type of trainee/audience	Location Level of effort
2021	Chief of Service: 14 year old with growth restriction and pituitary mass Residents, medical students, and hospitalists	Massachusetts General Hospital <i>for</i> Children Case presentation
2021	Hospitalist Journal Club Residents, medical students, and hospitalists	Massachusetts General Hospital <i>for</i> Children One hour lecture
2021	Hospitalist Journal Club Residents, medical students, and hospitalists	Newton-Wellesley Hospital One hour lecture
2021	Hospitalist Journal Club Residents, medical students, and hospitalists	Massachusetts General Hospital <i>for</i> Children One hour lecture
2021	Hospitalist Journal Club Residents, medical students, and hospitalists	Newton-Wellesley Hospital One hour lecture
2022	Sex Education in Massachusetts PGY-2 residents	Massachusetts General Hospital <i>for</i> Children 30 minute lecture
2022	Sex Education in Massachusetts Residents, medical students, and hospitalists	Massachusetts General Hospital <i>for</i> Children One hour lecture
2023	A Case of Dizziness Residents and medical students	Massachusetts General Hospital <i>for</i> Children 45 minute lecture
2023	A Case of Weight Loss Residents and medical students	Massachusetts General Hospital <i>for</i> Children 45 minute lecture
2023	Hospitalist Journal Club Residents, medical students, and hospitalists	Massachusetts General Hospital <i>for</i> Children One hour lecture

**Clinical Supervisory and Training Responsibilities**

Year(s)	Type of responsibility Type of trainee/audience	Location Level of effort
2023–present	Attending on inpatient general pediatrics team Residents	Massachusetts General Hospital <i>for</i> Children 0–1 weekend/month

**Local Invited Presentations**

No presentations below were sponsored by 3rd parties/outside entities

Year(s)	Title of presentation / Type of presentation Department and Institution where presented (sponsor, if any)
2017	The Impact of Smoking History EHR Fluctuations on Lung Cancer Screening Practices / Selected oral abstract Case Western Reserve University School of Medicine Lepow Research Day
2023	Intro to Clinical Informatics / Noon Conference, Department of Pediatrics Massachusetts General Hospital <i>for</i> Children, Boston, MA

**Report of Regional, National, and International Invited Teaching and Presentations**

No presentations below were sponsored by 3rd parties/outside entities

**Regional**

Year(s)	Title of presentation or name of course / Type of presentation/role(s) Location (sponsor, if any)
2022	A Case of Hemoptysis, Hematuria, and Anemia / Grand Rounds, Department of Pediatrics Massachusetts General Hospital <i>for</i> Children Boston, MA
2024	Quality of Life for People with Down Syndrome Around the World / Grand Rounds, Department of Genetics Massachusetts General Hospital Boston, MA

**National**

Year(s)	Title of presentation or name of course / Type of presentation/role(s) Location (sponsor, if any)
2018	Patient Navigation: Pre-clinical Medical Students Experiencing Longitudinal Patient Relationships / invited workshop Accelerating Change in Medical Education Consortium Student-Led Conference on Health Systems Science Hershey, PA

**International**

Year(s)	Title of presentation or name of course / Type of presentation/role(s) Location (sponsor, if any)
2019	Providers at an Academic Safety-Net Hospital System Tend to Refer Patients for Lung Cancer Screening Based on Patient Risk, but Demographic Disparities Persist / Selected oral abstract American Thoracic Society International Conference Dallas, TX

**REPORT OF CLINICAL ACTIVITIES AND INNOVATIONS****Current Licensure and Certification**

Year(s)	Type of License or Certification
2020	American Academy of Addiction Psychiatry MAT Waiver Course (8 hours)
2021	Qualified Bilingual Staff, Russian (ALTA Language Services, Inc.)
2021	Middlesex Children's Advocacy Center's Mandated Reporter Training
2022	Massachusetts Chapter 260 Training
2022	Massachusetts Registered Physician
2022	Epic Physician SmartUser Badge
2023	Russian Bilingual Clinician/Staff (Cross Cultural Communication Systems, Inc.)
2023	Epic Physician Builder Certification
2023	Epic Physician Builder Analytics Certification
2023	Epic Cosmos Administration Certification
2023	Epic Health Maintenance Badge
2023	Epic Alternatives Badge
2024	Epic Trainer: Pediatric Oncologist-Hematologist (Outpatient and Inpatient)
2024	Epic Physician Builder Population Health Certification
2024	Epic BestPractice Advisories Basics Badge
2024	Epic Usability Badge

**Practice Activities**

Month/Year(s)	Type of Activity	Name and Location of Practice	Level of Activity
7/2023–present	Pediatric Hospitalist, teaching service ( <i>per diem</i> )	Massachusetts General Hospital for Children	0–1 weekend/month
7/2023–present	Primary Care Physician ( <i>per diem</i> )	Andover Pediatrics	0–1 day/month
10/2023–present	Pediatric Hospitalist, Nurse Practitioner service( <i>per diem</i> )	Mass Eye and Ear	1–2 day/month
11/2023–present	Pediatric Hospital Medicine Additional Training Opportunities Program, non-teaching service	Boston Children's Hospital	1 day/month

**Clinical Innovations**

Name/location (dates if applicable)	Description
Interpreter phone application, Massachusetts General Hospital (2020–2022)	I started an improvement project to make interpreters more accessible in the hospital. When we rolled out a phone application, I was the lead clinician involved with the trial.
<a href="http://www.AmoxClav.com">www.AmoxClav.com</a> (2021–present)	Together with a pharmacist, I created an online clinical decision support tool to recommend appropriate formulations/ratios of amoxicillin-clavulanate to prescribe based on age, weight, and indication. I created and programmed the website; the pharmacist verified the methodology and quality.
<a href="http://www.InfusionCalc.com">www.InfusionCalc.com</a> (2022)	Together with a pharmacist, I created an online clinical decision support tool to verify the administration rates for uptitration of IV immunoglobulin and rituximab infusions.

**REPORT OF TEACHING AND EDUCATION INNOVATIONS**

Teaching/education innovation (date if applicable)	Description
Virtual pediatric clerkship (2020)	Led the development of a “Mock Wards Day” to simulate rounding and clinical decision making for pediatric clerkship students who were learning remotely in the setting of the COVID-19 pandemic.

**REPORT OF EDUCATION OF PATIENTS AND SERVICE TO THE COMMUNITY**

No presentations below were sponsored by 3rd parties/outside entities

**Activities**

Year(s)	Organization or institution / Role (Sponsor, if any) Description
2016–2017	Cleveland Metropolitan School District Taught three-day sex education classes, helped incorporate consent into the curriculum
2017	Case Western Reserve University School of Medicine Taught Cleveland middle and high school students general principles of biology related to the healthcare field
2017–2018	Cuyahoga County Juvenile Detention Center Taught three-day sex education classes
2021	Boston International Newcomers Academy Gave 1 hour lectures ×3 on medical topics to high school students
2024	<a href="#">Boston Children’s Hospital: Strategies for Teen Empowerment and Personal Health</a> Gave 45 minute lecture about my journey through medicine to high school students
2024	<a href="#">Boston Children’s Hospital Office of Health Equity &amp; Inclusion: Scribe and Mentoring for Premedical Students</a> Gave 1 hour lecture about Clinical Informatics to pre-medical undergraduate students
2024	CFRA (radio station in Ottawa, Canada) <a href="#">Live interview</a> about Research Investigation #7

**Educational Material for Patients and the Lay Community:**Patient Educational Material

Year	Title	Type of contribution (sponsor, if any)	Citation, if any
2019	<a href="http://www.DanceKats.com">www.DanceKats.com</a> (patient exercise education)	Creator	
2020–present	<a href="http://www.KatsMD.com">www.KatsMD.com</a> (general patient education)	Creator	

**REPORT OF SCHOLARSHIP**

ORCID: 0000-0001-7591-6222 ■ Google Scholar ■ Zotero (dkats)

**Peer-reviewed Scholarship in Print or Other Media**Research Investigations

1. Tarabichi, Y., **Kats, D.J.**, Kaelber, D.C., Thornton, J.D. The Impact of Fluctuations in Pack-Year Smoking History in the Electronic Health Record on Lung Cancer Screening Practices. *CHEST*. 2018, 153(2): 575–578.
2. Adie, Y., **Kats, D.J.**, Tlimat, A., Perzynski, A., Dalton, J., Gunzler, D., Tarabichi, Y. Neighborhood Disadvantage and Lung Cancer Incidence in Ever-Smokers at a Safety-Net Healthcare System: A Retrospective Study. *CHEST*. 2020, 157(4): 1021–1029.
3. **Kats, D.J.**, Patsiogiannis, V., Skotko, B.G. Epileptic Spasms in Patients with Down Syndrome: Experiences from Caregivers. *J Child Neurol*. 2020, 35(12): 813–819.
4. **Kats, D.J.**, Adie, Y., Tlimat, A., Greco, P.J., Kaelber, D.C., Tarabichi, Y. Assessing Different Approaches to Leveraging Historical Smoking Exposure Data to Better Select Lung Cancer Screening Candidates: A Retrospective Validation Study. *Nicotine Tob Res*. 2020, 23(8): 1334–1340.
5. **Kats, D.J.**, Skotko, B.G., de Graaf, G., Skladzien, E., Hooper, B.T., Mordi, R., Mykhailenko, T., Buckley, F., Patsiogiannis, V., Krell, K., Haugen, K., Donelan, K. Designing an international survey for organisations serving people with Down syndrome. *J Appl Res Intellect Disabil*. 2023, 36(3): 497–506.
6. **Kats, D.J.**, Martin, S.D., Smith, M.H. Don't "MIS-C" the cancer: a case report of balancing the timing of concurrent treatment for MIS-C and incidentally diagnosed pediatric Wilms tumor. *Pediatr Blood Cancer*. 2023, 70(5): e30216.
7. **Kats, D.J.**, Donelan, K., Banerjee, S., de Graaf, G., Skladzien, E., Hooper, B.T., Mordi, R., Mykhailenko, T., Buckley, F., Santoro, S.L., Patsiogiannis, V., Krell, K., Haugen, K., Skotko, B.G. Designing an international survey for organisations serving people with Down syndrome. *Genet Med*. 2024.  
■ Massachusetts General Hospital Press Release

Other Peer-reviewed Scholarship

1. **Kats, D.J.**, Roche, K.J., Skotko, B.G. Epileptic Spasms in Individuals with Down Syndrome: A Review of the Current Literature. *Epilepsia Open*. 2020, 5: 344–353.

Books/Textbooks for the Medical or Scientific Community

1. Mohan, G., **Kats, D.J.**, Martin, S.D., Miozzo, M. Cellular Therapies: A description of the types of existing cellular therapies and associated toxicities. In: Ullrich, C.K. (ed), Roeland, E.J. (ed). *Palliative Care for Hematologic Malignancies and Serious Blood Disorders: A Clinical Guide*. New York: Springer; 2023.



## Theses

1. **Kats, D.J.** Inosine 5'-monophosphate dehydrogenase: A collection of mysterious binding sites and regulation [BS honors thesis]. Waltham, MA: Brandeis University. 2016.
2. **Kats, D.J.** Lung cancer risk stratification, Down syndrome, and epileptic spasms: A journey through informatics, healthcare disparities, and quality improvement [MD thesis]. Cleveland, OH: Case Western Reserve University School of Medicine. 2020.

## Abstracts, Poster Presentations, and Exhibits Presented at Professional Meetings

### *Last Three Years*

1. [National] **Kats, D.J.**, Martin, S.D., Smith, M.H. Don't "MIS-C" The Cancer: a Case Report of Incidentally Diagnosed Wilms Tumor During Acute MIS-C. The American Society of Pediatric Hematology/Oncology Conference; Pittsburgh, PA. 2022. (Poster #559)