

RAHUL DHODAPKAR

PERSONAL

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EDUCATION

EXPECTED MAY 2023 Doctor of Medicine, **Yale School of Medicine**, New Haven, CT

MAY 2017 Non-degree Postbacc, **New York University**, New York, NY

MAY 2015 Bachelor of Science in COMPUTER SCIENCE, **Yale University**, New Haven, CT

MAY 2011 High School, **Hopkins School**, New Haven, CT

WORK

CURRENT SEP 2021	Neuroinflammation Research Fellow at YALE SCHOOL OF MEDICINE New Haven, CT, USA	<p>Led single-nucleus RNA sequencing project to characterize activated Muller glia in glaucoma and identify potential targets for neuroregenerative therapeutics.</p> <p>Mentored undergraduate and postgraduate students, training them in laboratory techniques as well as scientific knowledge and approach.</p> <p>Contributed to analysis and experimental design for project to characterize microglial involvement in the development of age-related macular degeneration (AMD) and compare it to other neurodegenerative disorders.</p>
MAY 2018 AUG 2015	Consulting Engineer at MONGODB INC. New York, NY, USA	<p>Architected and built information management systems for dozens of Fortune 500 clients, including:</p> <p>A critical resource management system used daily by over 7000 employees of a major U.S. city.</p> <p>A HIPAA-compliant database to store medical sensor data for thousands of patients in clinical trials.</p> <p>A globally distributed multi-terabyte database-as-a-service (DaaS) system with 99.999% uptime guarantee.</p>
MAR 2015 AUG 2014	Consultant at SEARS HOLDINGS CORPORATION Hoffman Estates, IL, USA	<p>Standardized external product interfaces for Sears' integrated home platform.</p> <p>Wrote middleware to unify distributed callback mechanisms for internet of things (IoT) applications.</p>
JUL 2014 MAY 2014	Software Engineering Intern at MONGODB INC. New York, NY, USA	<p>Prototyped a new query optimization system for the MongoDB kernel, using machine learning techniques to reduce execution time.</p>

JULY 2013 MAY 2013	<p>Research and Development Intern at EPIC SYSTEMS Verona, WI, USA</p> <p>Led a team of interns in building a web-application for mining patient data across hospitals using Epic.</p> <p>Wrote a graph-based clustering algorithm to connect physicians based on previously seen patient characteristics to promote collaboration in the diagnosis of ambiguously-presenting patients.</p>
JULY 2012 MAY 2012	<p>Software Development Intern at VANTAGELOCAL, (now FREQUENCY) Palo Alto, CA, USA</p> <p>Developed a web application to automate quote generation for locally targeted, real time bid (RTB) advertising.</p> <p>Wrote Flash-based tools to assist advertising creative team in banner ad design.</p>
FEB 2012 MAY 2008	<p>Research Associate at YALE CHILD STUDY CENTER <i>Lab of DR. MATTHEW STATE (now at UNIVERSITY OF CALIFORNIA, SAN FRANCISCO)</i> New Haven, CT, USA</p> <p>Wrote graphical interface for CNVision, a comprehensive toolkit for copy number variant (CNV) analysis of genotyping data.</p> <p>Developed custom scripts for data analysis and performed polymerase chain reaction (PCR) to generate samples for next-gen genome sequencing and RNA extraction for expression profiling of brain tissue.</p>

SERVICE

CURRENT MAY 2021	<p>Director of Medical Debt and Insurance Counseling at HAVEN CLINIC New Haven, CT, USA</p>
CURRENT AUG 2018	<p>Volunteer at YSM ANATOMY TEACHING PROGRAM New Haven, CT, USA</p>
MAY 2020 AUG 2018	<p>Volunteer at CODE HAVEN New Haven, CT, USA</p>
MAY 2018 AUG 2016	<p>Volunteer at MOUNT SINAI HOSPITAL, RUTTENBERG CANCER CENTER New York, NY, USA</p>
MAY 2014 SEP 2014	<p>Philanthropy Chair at SIGMA CHI FRATERNITY New Haven, CT, USA</p>
MAY 2013 SEP 2012	<p>Literacy Tutor at NEW HAVEN READS New Haven, CT, USA</p>
JUN 2009 MAY 2009	<p>TA at MOVING ACADEMY OF MEDICINE AND BIOMEDICINE Pune, MH, Republic of India</p>

LEADERSHIP

MAY 2018	Cybersecurity Standardization Field Lead
AUG 2016	<i>MongoDB</i>
MAY 2014	Treasurer and Philanthropy Chair
AUG 2013	<i>Sigma Chi Fraternity at Yale</i>
JAN 2014	Director of Technology
SEP 2012	<i>Yale Event Management Association</i>
AUG 2013	Social Chair
SEP 2012	<i>Yale Equestrian Team</i>

AWARDS AND HONORS

JUNE 2021	Medical Student Research Award <i>Yale Ophthalmology department research award for most outstanding medical student research.</i>
APR 2020	Honorable Mention: Margeurite Rush Lerner Contest <i>Medical student creative writing & art contest at Yale School of Medicine.</i>
MAR 2018	Young Investigator Award <i>Travel award from Thrombosis and Hemostasis Societies of North America.</i>
MAY 2015	Sigma Chi Chapter Balfour Prize <i>For most outstanding senior in the graduating class.</i>
AUG 2013	Sigma Chi J. Willard Marriott Scholarship
JUN 2013	ThinkChicago Lollapalooza Winner <i>Municipal innovation pitch competition by the City of Chicago</i>
OCT 2012	Yale Venture Creation Program Fellow
SEP 2012	Yale Entrepreneurial Society Elevator Pitch Competition Runner Up
MAY 2011	New Haven Register Youth of the Year
MAY 2011	National Merit Scholarship Finalist

PRESENTATIONS

- Nov 2020 Is it OK to drive home after an epidural steroid injection? **Rahul Dhodapkar**, Kanishka Rajput
American Society of Regional Anesthesia Pain Medicine Meeting
Virtual (per COVID-19)
- MAR 2018 Association between variants in HRG and SERPINA10 with male gender in patients with venous thromboembolism. **Rahul M. Dhodapkar**, Daniel J. Dykas, Deqiong Ma, Alfred I. Lee.
Thrombosis and Hemostasis Societies of North America Summit
San Diego, CA, USA
- JUN 2017 Securing Distributed Database Technology
MongoDB World Conference
Chicago, IL, USA
- JUN 2016 Building Asynchronous Microservices
MongoDB World Conference
New York, NY, USA
- JUN 2016 Security in the Age of the Internet
World Scholars Leadership Conference
GEUMGANG UNIVERSITY, Nonsan, Republic of Korea
- MAR 2016 Kerberos: What is it really, and how do I use it?
MongoDB Consulting Team Meeting
New York, NY, USA

PUBLICATIONS

- MAY 2020 **Dhodapkar RM** *A survey-wide association study to identify youth-specific correlates of major depressive episodes.* PloS One. 2020 May 8;15(5):e0232373.
- OCT 2017 Mark Santolucito, Ennan Zhai, **Rahul Dhodapkar**, Aaron Shim, and Ruzica Piskac. 2017. *Synthesizing Configuration File Specifications with Association Rule Learning.* Proc. ACM Program. Lang. 1, OOPSLA, Article 64 (October 2017), 20 pages. <https://doi.org/10.1145/3133888>
- JUN 2011 Sanders SJ, Ercan-Sencicek AG, Hus V, Luo R, Murtha MT, Moreno-De-Luca D, Chu SH, Moreau MP, Gupta AR, Thomson SA, Mason CE, Bilguvar K, Celestino-Soper PB, Choi M, Crawford EL, Davis L, Wright NR, **Dhodapkar RM**, DiCola M, DiLullo NM, Fernandez TV, Fielding-Singh V, Fishman DO, Frahm S, Garagaloyan R, Goh GS, Kammela S, Klei L, Lowe JK, Lund SC, McGrew AD, Meyer KA, Moffat WJ, Murdoch JD, O’Roak BJ, Ober GT, Pottenger RS, Raubeson MJ, Song Y, Wang Q, Yaspan BL, Yu TW, Yurkiewicz IR, Beaudet AL, Cantor RM, Curland M, Grice DE, Günel M, Lifton RP, Mane SM, Martin DM, Shaw CA, Sheldon M, Tischfield JA, Walsh CA, Morrow EM, Ledbetter DH, Fombonne E, Lord C, Martin CL, Brooks AI, Sutcliffe JS, Cook EH Jr, Geschwind D, Roeder K, Devlin B, State MW. *Multiple recurrent de novo CNVs, including duplications of the 7q11.23 Williams syndrome region, are strongly associated with autism..* Neuron. 2011 Jun 9;70(5):863-85. doi: 10.1016/j.neuron.2011.05.002.

NATURAL LANGUAGES

SPANISH: Basic

HINDI: Basic

KOREAN: Basic

PROGRAMMING AND INFORMATION SYSTEMS

LANGUAGES: Python, Perl, JavaScript, Java, C, C++, R

EXPERTISE: Information Architecture, Machine Learning, Cybersecurity

TOOLS: MongoDB, PostgreSQL, Kerberos, LDAP, SAMtools, CUDA