

ANDREW MINH-TRUNG NGUYEN, MS, NREMT

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EDUCATION

- 2023** **Tufts University School of Medicine;** M.S., Health Informatics and Analytics (GPA: 4.00 / 4.00)
MS-HIA Representative for the Public Health and Professional Degree Programs' Student Senate
- 2020** **University of California, Los Angeles;** B.S, Biology; Minor: Digital Humanities (GPA: 3.96 / 4.00)
Honors: *Summa Cum Laude, Departmental Honors, College Honors*

RESEARCH EXPERIENCE

- 2022-Present** Intramural Research Training Award Fellow
National Institutes of Health Clinical Center; Bethesda, MD
Advisor: Ronald R. Summers, MD, PhD, FSAR, FAIMBE
Builds AI algorithms to detect and quantify coronary artery plaques in noncontrast CT scans
- 2017-2021** Researcher (2017-2021), Conference Coordinator (2019-2020)
International Circle of Genetics Studies; Minneapolis, MN
Advisor: Carlos A. Tirado, PhD, FACMGG
Directed a team of 12 to conduct clinical research projects; created, organized, and lectured at cancer genetics conferences; led an international conference in Peru for 150 professionals
- 2017-2020** Research Intern (2017-2021), Research Coordinator (2019-2020)
Trauma Research Associates Program, Dept. of Surgery; Cedars-Sinai Medical Center
Advisor: Eric J. Ley, MD
Directed a team of 20 to conduct clinical research in acute care, traumatic brain injury and predictors of mortality; headed recruitment, onboarding, and administration
- Summer 2019** Research Intern
Carpenter Laboratory, Dept. of Cytogenetics; Mexico City, Mexico
Advisor: David Palencia
Collected, analyzed, and diagnosed chromosomal abnormalities from client blood samples

EMPLOYMENT EXPERIENCE

- 2023-Present** Co-Founder, Chief Financial Officer
Korion Health; Pittsburgh, PA
Directs financial operations for a digital health medical device startup that creates AI-assisted digital stethoscopes valued at \$15 million
- 2017-Present** Founder, Photographer
AN Portraits; Los Angeles, CA
Independently contracts over 150 graduation, event, organization, and wedding photography services
- 2021** Virtual Tutor
Princeton Review; Framingham, MA
Mentors students in college English and essay writing

Summer 2019 Instructor
Summer Premed Program; University of California, Irvine, School of Medicine
Mentored 50 students in a career in medicine through firsthand medical education

Summer 2019 Instructor
GPI US: Japan Empowerment; Tokyo, Japan
Created and taught English curriculum to 200 high school students

CLINICAL EXPERIENCE

2021-2022 Emergency Medical Technician
COVID Clinic; Irvine, CA
Registers patients, performs COVID tests, and runs operational testing sites for 400 patients a week

2018-2020 General Volunteer (2018), Clinic Assistant (2019-2020)
Venice Family Clinic; Santa Monica, CA
Independently directed, interviewed, and assessed patient chief complaints and vitals in examination rooms

Summer 2019 Volunteer
Agape International Missions; Phnom Penh, Cambodia
Instructed Vietnamese 100 refugees on dental health; assisted in dental surgeries and patient checkups

Fall 2018 Acute Care Surgery and Surgical Critical Care Volunteer
Pre-Healthcare Volunteer Program; Cedars-Sinai Medical Center
Surgical Intensive Care Unit, Operating Room Observer

2016-2018 Member (2016-2017), Intern (2017-2018)
Vietnamese Community Health; University of California, Los Angeles
Provided hypertension, BMI, and other health services for over 250 patients at quarterly health fairs

PUBLICATIONS

In Revision **Nguyen, AM,** Uppal, S, Pereira, MM, Pluti, A, Gualtieri, L. Using Contextual Sensitivity To Improve Medication Adherence for Older Adults.

2023 **Nguyen, AM.** Using Information Governance to Evaluate Patient Care in Amazon's One Medical. Preprint. arXiv:2304.04096

2023 **Nguyen, AM.** Challenges of Blockchain Applications in Digital Health: A Systematic Review. Preprint. arXiv:2304.04101

2023 **Nguyen, AM,** Rivera, M, Gualtieri, L. A New Healthcare Paradigm: The Power of Digital Health and e-Patients. Mayo Clinic Proceedings: Digital Health. Accepted, in press.

2020 **Nguyen AM,** Okabe A, Tse V, Tirado CA. T-Cell Acute Lymphoblastic Leukemia: A Cytogenomic Update. J Assoc Genet Technol. 2020;46(2):59-73.

2020 **Nguyen AM,** Tse V, Lapp K, Yang G, Cunnien K, Serk D, Tirado CA. Molecular Cytogenetic

Characterization of a Complex Karyotype of a Pediatric Male Patient with B-Acute Lymphoblastic Leukemia. *J Assoc Genet Technol.* 2020;46(1):24-31.

- 2020** Tirado CA, Reinartz J, Lapp K, Zhao D, **Nguyen AM**, Stieglbauer K. Cytogenetic Findings in a Case of Blastic Plasmacytoid Dendritic Cell Neoplasm (BPDCN). *J Assoc Genet Technol.* 2020;46(1):5-13.
- 2019** Zhao D, **Nguyen AM**, Stieglbauer K, Tirado CA. Duplication of the band q21q27 on the long arm of chromosome 3: A rare cytogenetic event in B-Chronic Lymphocytic Leukemia (B-CLL). *J Assoc Genet Technol.* 2019;45(2):67-71.
- 2019** Okabe A, Reyes A, Murphy M, Thompson L, **Nguyen AM**, Laban F, Cunnien K, Wyatt B, Tirado CA. Molecular cytogenetic characterization of a karyotype of a female patient with secondary amenorrhea. *J Assoc Genet Technol.* 2019;45(4):180-186.

AWARDS

- 2023** Johns Hopkins Healthcare Innovation Design Challenge, Digital Health - 1st Place (1/21)
- 2023** PDMA Pitch Competition 2022, Graduate Student Category - 1st Place (1/8)
- 2023** Pittsburgh Business Times Top 10 Startups to Watch in 2023

POSTERS

- 2023** **Nguyen, AM**, Liu, J, Summers, RM. A Deep Learning Model for the Detection and Quantification of Coronary Artery Plaques on Noncontrast CT Scans. NIH Postbac Poster Day, Bethesda, Maryland. April 19-20, 2023.
- 2020** **Nguyen, AM**, Tirado, CA. Chromosome Classification Using Novel Feature-Based Convolutional Neural Network. UCLA Undergraduate Research Week, Los Angeles, California. May 19, 2020.
- 2019** **Nguyen, AM**, Tse, V, Lapp, K, Yang, G, Peng, E, Cunnien, K, Serk, D, Tirado, CA, 2019. Molecular Cytogenetic characterization of a complex karyotype of a pediatric male patient with B-acute lymphoblastic leukemia. American Society of Human Genetics, Houston, Texas. October 15-19, 2019.
- 2019** Zhao, D, **Nguyen, AM**, Lapp, K, Stieglbauer, K, Reinartz, J, Tirado, CA, 2019. Cytogenetic findings in a case of blastic plasmacytoid dendritic cell neoplasm (BPDCN). American Society of Human Genetics, Houston, Texas. October 15-19, 2019.
- 2019** Okabe, A, Reyes, A, Murphy, M, Thompson, L, **Nguyen, AM**, Laban, F, Cunnien, K, Wyatt, B, Tirado, CA, 2019. Molecular cytogenetic characterization of a karyotype of a female patient with secondary amenorrhea. American Society of Human Genetics, Houston, Texas. October 15-19, 2019.
- 2019** **Nguyen, AM**, Okabe, A, Tse, V, Yun, M, Tirado, CA. Cytogenetics of T-Acute Lymphoblastic Leukemia. UCLA Undergraduate Research Week, Los Angeles, California. May 20-24, 2019.

- 2018** **Nguyen, AM**, Zhao, D, Chung, D, Reyes, A, Reinartz, J, Serk, D, Ahmad, J, Bartholomaus, L, Stieglbauer, K, Tirado, CA. Duplication of the band q21q27 on the long arm of chromosome 3: A rare cytogenetic event in B-Chronic Lymphocytic Leukemia (B-CLL). American Society of Human Genetics, San Diego, California. October 16-20, 2018.
- 2018** **Nguyen, AM**, Zhao, D, Liu, K, Tirado, CA. A t(18;22)(q21;q11) involving IGL/BCL2, A Rare Event in Chronic Lymphocytic Leukemia. UCLA Undergraduate Research Week, Los Angeles, California. May 21-25, 2018.
- 2017** Tirado, CA, Liu, K, **Nguyen, AM**, Crippen, R, Wyatt, B, Peterson, K, Wheaton, S, Serk, K, Cunnien, K, Reinartz, J. A plasma cell myeloma case with an abnormal clone with a t(8;22)(q24.1;q11.2) within the context of a hyperdiploid complex karyotype. American Society of Human Genetics, Orlando, Florida. October 17-21, 2017.

PLATFORMS AND PRESENTATIONS

- 2023** **Nguyen, AM**. Korion Health: Expanding access. Empowering patients. 2023. SuperCrowd23.
- 2020** **Nguyen, AM**, Shabsovich, D, Reyes, A, Tse, V, Yeh, W, Yee, J. Cytogenetics Workshop. 2020. Tilden Study Center.
- 2019** **Nguyen, AM**, López, M. Visualizing 19th Century Mexican Los Angeles. 2019. Charles E. Young Research Library.
- 2018** **Nguyen, AM**, Tirado, CA. Cytogenetics of T-Acute Lymphoblastic Leukemia. 2018. International Symposium of Genetics.
- 2018** Liu, K, Crippen, R, Gorgy, G, Salazar, E, Makar, C, **Nguyen, AM**, Zhao, D. Cookies and Chromosomes Workshop. 2017. UCLA Mattel Children's Hospital.
- 2017** Friend, M, Gorgy, I, Makar, C, **Nguyen, AM**, Salazar, E. What is Cytogenetics, and What is its use in Medicine? 2017. Tilden Study Center.

ADDITIONAL EXTRACURRICULAR EXPERIENCE

- 2016-2020** Dancer (2016-2017), Photography Chair (2018-2020)
Foundations Choreography; UCLA
Photographed over 1500 beginner and intermediate dancers in weekly workshops and quarterly showcases for an audience of 6000 for the largest hip-hop dance organization on campus
- 2018-2019** Publicity Chair
Southeast Asian Admit Weekend; UCLA
Directed publicity for 150 prospective Southeast Asian students to learn more about their history and culture while pursuing higher education through workshops, tours, and empowerment
- 2018-2019** Publicity Chair
38th Annual Vietnamese Culture Night; UCLA
Directed publicity, outreach, design, and funding for a \$30,000 performance night advocating for the cultural, educational, political, and social welfare of the Vietnamese community for an audience of 1000

Fall 2018

Publicity Chair

Vietnamese Student Union High School Conference; UCLA

Directed publicity, outreach, and design for a one-day program to assist 150 high school students in their preparation for college through workshops, tours, and empowerment