

# ELHADJI AMADOU TOURÉ

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## EDUCATION

**Carleton College**, Northfield, MN

*September 2021 – June 2025*

*Bachelor of Arts: Major & Minor: Computer Science; Biochemistry; Pre-Medicine Track*

**Coursework:** Genes, Evolution, and Development; Artificial Life and Digital Evolution; Principles of Psychology; General Chemistry I & II; Organic Chemistry I & II; Climate Change and Human Health; Energy Flow in Biological Systems; Data Structures; Human-Computer Interaction; Mathematics of Computer Science; Theory of Computing; Computational Biology and Medicine

**Aquincum Institute of Technology (BME Subsidiary)**, Budapest, Hungary

*August 2023 – December 2023*

*Coursework:* Computational Biology and Medicine; Theory of Computing; Scalable Systems and Development Processes; User Experience Design

**GPA: 5.00/5.00**

## EXPERIENCES

**Mayo Clinic**, Rochester, MN

*June 2023 – Present*

*Medical Oncology Intern, Department of Otolaryngology – Head and Neck Surgery*

- Selected as 1 of 9 out of 1000 applicants for a medical oncology position at Mayo Clinic, Rochester
- Using Flutter, developing a web application assisting patients in determining their prognosis of smoldering multiple myeloma, multiple myeloma, monoclonal gammopathy of undetermined significance (MGUS), etc.
- Participating in two pivotal research projects: 'A mixed Method Approach to Explore Successful Recruitment and Treatment of Minority Patients on Therapeutic Cancer Clinical Trials at Mayo Clinic' and 'Comparison of Qualitative and Quantitative Dual-Energy CT and Whole-Body MRI Parameters for Longitudinal Monitoring of Bone Involvement in Patients with Multiple Myeloma'.
- Accrued 82 hours of Operating Room and over 23 hours of clinical shadowing.
- Gained hands-on experience in multiple aspects of clinical and surgical patient care, healthcare disparities, resident lectures, grand-rounds, and conference presentations.
- Host simulations at Carleton College under the guidance of Walter Franz III, M.D., to train pre-medical students in healthcare disparities, street, and emergency medicine through interactive learning modules.

**Perception Laboratory**, Northfield, MN

*January 2023 – Present*

*Research Assistant*

- Develop and conduct research experiments on the cognitive processes supporting speech perception in difficult listening conditions and the mechanisms underlying audiovisual integration.
- Research topics including the influence of expectations and contextual information on spoken word recognition and the role of individual difference factors in spoken word recognition abilities.
- Explore the quantification and mathematical modeling of the processes underlying spoken word recognition.
- Measure the cognitive effort necessary to understand speech.

**Carleton College**, Northfield, MN

*Introduction to Computer Science Mentor*

*January 2023 – March 2023*

- Coached and mentored students in introductory Computer Science course.
- Held teaching assistant sessions where fundamental computer science concepts and complexity were discussed.
- Mentored students through exam preparation.

**Project Friendship**, Northfield, MN

*App Developer / Computer Programmer Student Worker*

*February 2023 – June 2023*

- Worked independently on app development with the guidance of a professional developer for Project Friendship, a Northfield non-profit organization that provides youth mentoring.
- Completed and refined implementation of the mobile application for use by college-student mentors, parents of young mentees, the Project Friendship organization, and potentially mentees in support of the youth mentoring mission of the organization.
- Offered creative ideas / solutions to development and function of application.
- Developed and implemented a plan for continuous support of the app.

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**Climate Change and Human Health**, Northfield, MN; Addis Ababa, Ethiopia

**September 2022 – March 2023**

*Chemistry and Environmental Studies Program*

- Evaluated the emissions, composition, and combustion characteristics of selected blended fuel pellets to reduce chances of indoor PM<sub>2.5</sub> particles inhalation by users.
- Analyzed the role of pellet quality and user cooking practices in the performance of improved cookstoves in Addis Ababa, Ethiopia.

**Mayo Clinic Alix School of Medicine**, Rochester, MN

*Intern*

**October 2022 – April 2023**

- Selected for mentorship and internship program for pre-medical students of minority and disadvantaged background.
- Promoted my early exposure, interactive and simulation-based learning, and career navigating resources in the field of medicine through engagements in clinical and surgical simulations.
- Participated in mentor-mentee interaction, small group community service project, and willingness to explore and challenge limits.

**Cabinet Médical de Médecine Générale | Clinique Cardiologique**, Dakar, Sénégal

*Clinical Intern*

**July 2022 – August 2022**

- Underwent training, assisted, and shadowed family, enterprise, and sports medicine physicians.
- Collected and meticulously documented patients' blood pressure, temperature, and glucose level.
- Shadowed physicians in consulting patients with pathologies including chronic kidney disease (renal failures), irritable bowel syndrome, chronic venous insufficiency, sickle cell disease, ischemic chest pain, osteoarthritis (knees and wrists), acute lobar pneumonia, etc.
- Shadowed interventional cardiologists conducting coronary angiographies and angioplasties.

## WORK EXPERIENCE

**Carleton College**, Northfield, MN

**June 2022 – Present**

*Residential Assistant*

**August 2022 – Present**

- Foster a safe, fun, and inclusive environment for all residents in assigned dorm community.
- Focus on assisting residents with their adjustment to life on campus and establish and enforce community standards.
- Connect residents to campus resources.

## LEADERSHIP EXPERIENCE

**Carleton College Muslim Student Association (MSA)**, Northfield, MN

**March 2022 – Present**

*Treasurer; Secretary*

**September 2022 – December 2022; September 2023 – Present**

- Kept track of MSA's \$5,000-\$10,000 budget and spendings each term / over the year.
- Communicated with Carleton's Student Association's budget committee when needed.
- Applied for fund allocation and other budget requests for the organization.
- Handle communications between the MSA board, its members, and other religious organizations on campus

*College Chaplain Search Committee Member*

**February 2023 – June 2023**

- Alongside faculty, staff, students, and the chief of staff of Carleton College, participated in the decision making of the hiring of Carleton's new chaplain through reviewing applications and conducting interviews.
- Engaged other members of the Carleton community through on-campus interviews with candidates.

*Muslim Chaplain Search Committee Member*

**September 2022 – December 2022**

- Participated in the decision making of the hiring of Carleton's Associate Chaplain for Muslim and Interfaith life through reviewing applications and conducting interviews.
- Engaged other members of MSA through on-campus interviews with candidates.

*Intern*

**March 2022 – September 2022**

- Shadowed members of MSA's boards and attended board meetings.
- Provided insight regarding the needs of the underclassmen students in Carleton's MSA.

**Thrive Scholars**

**April 2020-Present**

*Scholar & Ambassador*

- Selected as one of 90 students out of 2400 applicants to participate in a 6-year college access, college success, & professional development program for high achieving, underrepresented, low-income first-generation students.
- Hone analytical, quantitative, and communication skills in a four-year comprehensive Career development program.
- Selected amongst 500+ scholars to represent the program at outreach events.
- Participate in marketing and promotional national campaigns to recruit potential donors and scholars.

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**Carleton College Men of Color**, Northfield, MN

*November 2021 – November 2022*

*Secretary & Mentor*

*January 2022 – November 2022*

- Managed communications between managers and the rest of the organization.
- Continued previous duties of first year representative.
- Maintained involvement in mentorship program set up by Men of Color in Northfield's middle and high schools.

*First Year Representative & Mentor*

*November 2021 – January 2022*

- Provided support and resources for male-identifying students of color.
- Engaged in recruiting first-years to join the organization by creating and facilitating community-building events, including the provision of haircuts through contracted local barbers.
- Launched a mentorship program with Men of Color in Northfield's middle and high schools with monthly check-ins with students of disadvantaged backgrounds to provide mentorship, support, and serve as a role model.

## RESEARCH PRESENTATIONS

### *Exploring Barriers & Facilitators in Minority Recruitment for Cancer Clinical Trials: A Qualitative Study*

- Summer Research Education Program Student Presentations, Rochester, MN, August 2023
- Presented research on a study that used qualitative methods to understand clinicians' perspectives on enhancing minority participation in clinical trials, identifying key barriers and facilitators, and proposing multifaceted strategies for improved recruitment and inclusivity.

### *Improved Biomass Stoves and Improved Cooking Practices Contribute to Lowering PM2.5 Exposure in Addis Ababa, Ethiopia*

- American Association for Aerosol Research Conference (Presented by PI), Portland, OR, October 2023
- Submitted and created poster presentation on 'Improved Biomass Stoves and Cooking Practices in Addis Ababa, Ethiopia at AAAR 2023. The study focused on the effectiveness of fan-forced gasifier stoves for reducing indoor PM2.5 levels, comparing them with traditional cooking methods. Emphasized the importance of proper stove usage and training for maximizing health benefits.
- Presented subsection entitled *Cooking Practices, Pellet Composition, and Improved Cookstove Performance* at Carleton College

## LABORATORY TECHNIQUES, SKILLS, LANGUAGES & HOBBIES

**Laboratory Techniques:** Polymerase Chain Reaction, Gel Electrophoresis, DNA Extraction, Compound Purification, Titrations, Spectrophotometry, Chi Square Tests, Synthesis and Characterizations, Use of pH Meter.

**Skills:** Flutter Programming (Advanced) Python Programming (Advanced, LinkedIn Skill Assessment Badge); Java (Advanced); C++ (Intermediate); GitHub (LinkedIn Skill Assessment Badge); R Studio (Advanced); Microsoft Word (LinkedIn Skill Assessment Badge); MongoDB (LinkedIn Skill Assessment Badge); Microsoft Excel; Figma (Intermediate).

**Languages:** Native Speaker of **French** and **Wolof**. Full Professional Proficiency in **English**.

**Hobbies:** Football (soccer), Boxing, Calisthenics, Basketball, Karate, Beat making, Gaming, Swimming, Chess.

## VOLUNTEER EXPERIENCE

**HealthFinders Collaborative**, Northfield, MN

*December 2021 - Present*

*Program Director (Carleton College Liaison)*

- Uphold client confidentiality and customer satisfaction at a clinic that provides a comprehensive primary access point to health services for the marginalized, uninsured families of Rice County, Minnesota.
- Participate in increasing students' participation and awareness of the clinic while filing volunteers' hours and their contributions to the establishment.

**Project Friendship**, Northfield, MN

*December 2021 - Present*

*Program Leader (Carleton College Liaison)*

- Uphold client confidentiality and customer satisfaction at a clinic that provides a comprehensive primary access point to health services for the marginalized, uninsured families of Rice County, Minnesota.
- Participate in increasing students' participation and awareness of the clinic while filing volunteers' hours and their contributions to the establishment.

**Carleton College**, Northfield, MN

*June 2022 - Present*

*Carleton Liberal Arts Experience (CLAE) Mentor*

- Served as a mentor, role model, residential advisor, and teaching assistant (TA) in summer academic program for 52 Black / African Americans who have just completed their sophomore year of high school.
- Shared my own experiences with the college search process while advising and supporting program's participants.
- Ongoing mentoring five of the program's alumni.