

Charlotte Reed

EDUCATION

Northwestern Feinberg School of Medicine

MD Student

- Fellowship: *Wellesley College Graduate Fellowship*

Expected Graduation: May 2026

Chicago, IL

June 2022

Wellesley College

BA, Spanish, 3.92/4.00

- Awards: *Phi Beta Kappa, Summa Cum Laude, Sigma Xi, Introductory Chemistry Award, Organic Chemistry Award*

Graduation: May 2019

Wellesley, MA

RESEARCH EXPERIENCE

Dermatology Education Research

Nov 2021 – Present

Northwestern University Feinberg School of Medicine

- Create and disseminate evidence-based dermatology curriculum for medical students in primary care clerkship; create pre- and post-curriculum surveys to assess knowledge, confidence, behavior change, and attitudes; work with administration to implement curriculum
- Conferences
 - **Feinberg Medical Education Research Day** Sept 2022
Poster: Gaps in Dermatology Education: Disease Representation
 - **16th Annual Lewis Landsberg Research Day** Sept 2022
Poster: An Evidence-Based Dermatology Curriculum for Primary Care Education

Plastic Surgery Research

Nov 2021 – Present

Northwestern University Feinberg School of Medicine

- Mentor undergraduate student on education-based research including survey design and literature review; lead collaboration with nonprofit pharmaceutical company on review paper of applications of membranes in chronic wound healing; analyze past scar clinical trials for pitfalls

Biochemistry Research

June 2019 – May 2021

Harvard Medical School

- Conduct genetic screens and aid in single molecule microscopy for projects related to RNA Pol II and gene expression

Biochemistry Education Research

May 2016 – Feb 2021

Wellesley College

- Design survey and interview TAs and faculty on chemistry pedagogy; literature reviews on survey design and concept inventories; analyze survey results from 500+ students to assess learning outcomes; design posters for conferences; successfully apply for IRB approval
- Conferences
 - **Experimental Biology** April 2019
Poster: Learning Progressions as a Pedagogical Tool for Instructors
 - **Ruhlman Conference** April 2017
Presentation: Learning Progressions from Introductory Chemistry through Biochemistry

Public Health Research

Summer 2018

The Massachusetts Executive Office of Elder Affairs

- Conduct phone surveys with caregivers on assistive technology program for people with Alzheimer's; data cleaning and entry from state-wide survey; organize agency achievements for past 5 years

Preeclampsia Research

Summer 2017

Brigham and Women's Hospital

- Chart review for statistical analysis of clinic using REDCap and Epic; develop material for social media outreach; conduct literature reviews
- Conferences

- o **Tanner Conference**

Oct 2017

Presentation: Hearts Are Forever, Not Just for Valentine's Day

PUBLICATIONS

Publications

- **Reed, C. R., & Wolfson, A. J.** (2021). Concept Inventories as a Complement to Learning Progressions. *CBE—Life Sciences Education*, 20(2), es4. <https://doi.org/10.1187/cbe.20-06-0139>
- **Reed, C. R., & Wolfson, A. J.** (2021). Are Learning Progressions a Useful Pedagogical Tool for Instructors? *Journal of College Science Teaching*, 51(2), 32-40.
- Baek, I., Le, S. N., Jeon, J., Chun, Y., **Reed, C.R.**, Buratowski, S., A set of *Saccharomyces cerevisiae* integration vectors for fluorescent dye labeling of proteins, *G3 Genes|Genomes|Genetics*, 12(10), jkac201. <https://doi.org/10.1093/g3journal/jkac201>

Abstracts

- **Reed, C. R., & Wolfson, A. J.** (2019). Learning Progressions as a Pedagogical Tool for Instructors. *The FASEB Journal*, 33(S1), 456-7. <https://doi.org/10.1096/fasebj.2019.33.s1.456>
- Wolfson, A. J., **Reed, C. R.**, Mercer, A. M., Suthimer, S., & Lewis, J. E. (2018). The intersection of learning progressions and concept inventories: assessment of student understanding of acid/base concepts. *The FASEB Journal*, 32, 663-11. https://doi.org/10.1096/fasebj.2018.32.1_supplement.663.11

TEACHING & MENTORSHIP

Volunteer Tutor, Northwestern University July 2022 – Present

- Tutor 11-year-old in reading and math weekly; design lesson plans; help with homework; give progress reports and plans for growth to legal guardian

NU Path Mentor, Northwestern University Sept 2021 – Present

- Mentor undergraduate students from underrepresented background through medical school admissions process

Supplemental Instruction Leader, Wellesley College Aug 2016 – May 2019

- Design supplemental worksheets for introductory chemistry class; conduct lessons; hold office hours

Youth Mentor, Harvard Wellesley Mission Hill After School Program Aug 2015 – May 2016

- Tutor and mentor fourth grade children from an underprivileged Boston community weekly

LANGUAGES, INTERESTS, & CLUBS

- **Languages:** English (native), Spanish (full professional working proficiency), French (limited working proficiency)
- **Interests:** Sewing, strength training, running, cooking, traveling
- **Clubs:**
 - o **Phi Rho Sigma Medical Society**, Chapter President
 - o **Social Chair**, García Sosa College