

Lauren Cohn

Incoming neuroscience student at Virginia Tech · Fall 2027

Tel Aviv, Israel · +972 53-347-9786 · **lauren@thecohns.us** · linkedin.com/in/lauren-cohn-41755726b · **laurencohn.me**

In Tel Aviv February–May 2027 and looking for a part-time biotech internship, three to four days a week, anywhere commutable from Tel Aviv. Two years of hands-on *C. elegans* and molecular biology work with Emory faculty. Looking for wet-lab work first, or the science side of a computational team: a bench or a project, a mentor, and work that matters to the company.

Research experience

Aug 2025 – May 2026

Senior Capstone Researcher Walton STEM Academy with the Katz Lab, Emory University · Atlanta, GA

- Designed and ran a year-long 2×2 study of whether early-adult glucose exposure increases β-amyloid aggregation and paralysis in a transgenic *C. elegans* Alzheimer's model (LSD2104, GFP-tagged human Aβ1-42); literature review of 20+ papers, wrote the methodology and budget; mentored by eight faculty members across five universities (Emory, Oglethorpe, Augusta, Medical University of South Carolina, Holy Cross)
- Poured NGM and glucose plates, cultured *E. coli* OP50, maintained strains, ran synchronized egg lays and pick transfers; mounted worms with levamisole and imaged on confocal (z-stack) and epifluorescence/DIC microscopes at Emory
- Quantified aggregate burden and motility in ImageJ and Lolitrack; two-way ANOVA, Kruskal-Wallis, Spearman
- **Result:** glucose did not significantly increase Aβ burden; temperature dominated motility. Presented to Emory faculty, the Walton STEM Academy and the Walton science fair; grade A

Jun – Jul 2025

Summer Intern, Jin Lab Emory University Department of Human Genetics · Atlanta, GA

- Shadowed and assisted six researchers studying Fragile X syndrome across mouse, *Drosophila*, iPSC and organoid models; assisted mouse brain dissection, DNA isolation and *Drosophila* sorting; observed genotyping, western blots and rat blood draws

2023

Semifinalist, Genes in Space Boeing / miniPCR / ISS National Lab

- Proposed "Gene Delivery Using Mechanoporation Enhanced in Zero Gravity" for testing on the ISS. Honorable Mention, top 15 of 820 teams (1,170 students); youngest and sole independent semifinalist, at 14. Mentored by the Sulchek lab (Georgia Tech / CellFE)

Laboratory skills

Molecular biology	PCR, agarose gel electrophoresis, restriction digest, bacterial transformation, DNA isolation
Model organisms	*C. elegans* culture, synchronization and picking; *E. coli* OP50 culture; mouse brain dissection; *Drosophila* sorting
Microscopy	Confocal (z-stack), epifluorescence/DIC, dissecting scope; agarose-pad mounting; ImageJ/FIJI, Lolitrack
Analysis	Two-way ANOVA, Kruskal-Wallis, Spearman; literature review and protocol design
General	Sterile technique, autoclave, micropipetting, media prep, lab safety and waste handling; simulated suturing

Education

Virginia Tech
B.S. Neuroscience · entering Fall 2027

Walton High School, STEM Academy
Biomedical Sciences pathway · Marietta, GA · May 2026 · weighted GPA 4.26 · SAT 1400
AP Biology, Physics, Calculus BC; Biomedical Innovations; Advanced Scientific Research · STEM Academic Excellence Award (top of cohort) · STEM Star Award · AP Scholar with Distinction

Young Judaea Year Course, Israel
Sep 2026 – May 2027 · gap year: Hebrew ulpan, community service, part-time biotech internship (Feb–May 2027)

Leadership and service

Founder and President, GlamourGals (Walton chapter), 2024–26—built the chapter from zero to 60+ members; three senior-living partners; ~100 makeovers; Intergenerational Service Award

Co-Chair, NFTY-SAR Spring Kallah 2025—led a six-person committee running a three-day retreat for 60+ Jewish teens across six states

Science National Honor Society (AP Biology peer tutor) · **National Honor Society**

HOSA, 2023–26—wrote and produced a brain-health PSA on Alzheimer's prevention; competed at the Georgia State Leadership Conference for Brain Health, Forensics, and Health Education

BBYO Volunteer Israel, 2024—30 hours of agricultural recovery and meal service · visited October 7th memorial sites and victims' families