

# SOFIA ETLIN

sme82@cornell.edu | +1 (607) 262-9038

## EDUCATION

**Cornell University** | Ithaca, NY | Graduation: June 2026

**B.S. in Biology & Society** | Minor: Applied Economics & Law | GPA: 3.69

- **Senior Thesis:** "Self-Regulation in U.S. Commercial Spaceflight: Assessing Impacts on Crew Health and Safety"
- **Competitions and Awards:**
  - Cornell Entrepreneurship Fellow
  - 1st Place, SATELLITE '24 Pitch Competition; accepted to Space Generation Fusion Forum, Space Symposium '25
  - Invited to Entrepreneur First Accelerator Fall '23 Cohort (20 accepted of 5,000 applicants)

## PROFESSIONAL EXPERIENCE

**Care Equity** | New York, NY | May 2025 – August 2025

*Summer Analyst*

- Built **competitive landscape maps** across biotech verticals; authored a **white paper on cellular reporter potency bioassay**.
- Engaged with **40+ CEOs at major industry conferences** to source deals and develop senior-level relationships.
- **Created market models** in Excel to size TAM/SAM and adoption, directly informing investment committee decisions.
- Acted as the **primary analyst on active diligences**, supporting portfolio companies with targeted market research and operating with a high degree of independence.

**Fremen Space Inc.** | Ithaca, NY | March 2023 – May 2025

*CEO & Co-Founder*

- Designed and fabricated a **patent-pending urine filtration device** for astronaut spacesuits, with filter, circuitry, and fit testing.
- Secured **\$85,000 in seed funding** through investor pitches and grants; developed **financial models** and company accounting.
- Managed **cross-functional teams of 15**, established hierarchy, and negotiated housing for NYC operations.
- Won **1,000 sq/ft of lab space** and coordinated **\$30,000 in equipment logistics** for standardized prototype development.

**OccMed Consulting and Injury Care** | Boston, MA | May 2024 – August 2024

*Medical Assistant*

- Streamlined **quality assurance in patient records management** by implementing automated workflows in **Excel, SQL, and Pyspark** reducing documentation errors by **40%** and ensuring **FAA certification compliance**.
- **Performed quantitative analyses of pilot and astronaut medical data** using R and statistical software, evaluating cardiovascular and neurological test results to assess patient health.

**Mason Lab, Weill Cornell Medical College** | New York, NY June 2022 – May 2025

*Co-Principal Investigator*

- Designed and conducted **predictive analyses** on human transcriptional adaptation to hyper-gravity, leveraging **RNA sequencing, RT-LAMP PCR, GloMax, and Flow Cytometry** in controlled lab environments.
- **Authored NASA NSPIRES \$300,000 grant proposal** as Co-PI and **created data visualization dashboards** to present findings, showcasing actionable insights for sustainable space biology.

## COMMUNITY EXPERIENCE

**Mi Casa; Tu Casa (NGO Building Libraries in Refugee Camps)** | Roraima, Brazil | January 2021 – January 2023

*Project Manager*

- Led a **20+ person team** and coordinated the transport of **45,000 donated books** for Venezuelan refugees.
- Raised **\$40,000 in funding** and collaborated with the **Brazilian Army** on material and land procurement.
- Conducted **1-on-1 sessions with 300+ teenage asylum seekers** and exchanged **8,000 letters** between students and refugees.

## TECHNICAL SKILLS

- **Data Analysis & Visualization:** Advanced proficiency in **Excel, Google Sheets, SQL, Pyspark, Tableau, and PowerPoint** for statistical analysis, resource allocation, financial modeling, and data-driven decision-making.
- **Forecasting & Modeling:** Experienced in **financial planning tools and predictive models** for strategic decision-making.
- **Project Management:** Proficient in **Microsoft Project, Jira, and Asana** for managing cross-functional teams and tasks.
- **Regulatory Compliance & Communication:** Skilled in maintaining QMS for **FDA-compliant documentation**.

## PUBLICATIONS & MEDIA COVERAGE

### Publications

- Etlin S., et al. (2024). *The Human Microbiome in Space: Parallels between Earth-Based Dysbiosis, Implications for Long-Duration Spaceflight, and Possible Mitigation Strategies*. American Society for Microbiology. DOI: [\[10.1128/cmr.00163-22\]](https://doi.org/10.1128/cmr.00163-22)
- Etlin S., et al. (2024). *Enhanced Astronaut Hygiene and Mission Efficiency: A Novel Approach to In-Suit Waste Management and Water Recovery in Spacewalks*. Frontiers. DOI: [\[10.3389/frspt.2024.1391200\]](https://doi.org/10.3389/frspt.2024.1391200)

Featured in **200+ Media Outlets** including: [Forbes](#), [Wall Street Journal](#), [CNN](#), and [NPR](#).

## INTERESTS

**Private Pilot In-Training**, South American Powerlifting Champion, World-Record Holding Spear Fisher, Watches