

# HOYT GONG

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## EDUCATION

**UNIVERSITY OF PENNSYLVANIA** | Philadelphia, PA

May 2021

**The Vagelos (Dual-Degree) Program in Life Sciences & Management (LSM)**

- **The Wharton School** – Candidate for B.S. in Economics (Statistics & Healthcare Management Concentrations)
- **College of Arts & Sciences** – Candidate for B.A. in Computational Biology

*Relevant Coursework:* Big Data Analytics (Graduate level), Advanced Digital Economy, Modern Data Mining, Probability, Corporate Finance, Genomic Medicine, Comparative Health Systems, Healthcare Entrepreneurship

**SOUTH PASADENA HIGH SCHOOL** | Los Angeles, CA

June 2017

Class of 2017 Valedictorian, National Chemistry Olympiad (USNCO) Honors Finalist

## WORK EXPERIENCE

**Boston Consulting Group (BCG)** | San Francisco, CA

Summer 2020

*Incoming Summer Associate*

**GlaxoSmithKline (GSK)** | Research Triangle Park, NC

Summer 2019

*Data Product & Engineering Intern*

- Delivered cloud-based merge capability using Databricks Delta to reduce company data storing runtime by 20%
- Developed Neural Network models to detect Malaria disease at 93% accuracy using internal technology
- Composed and presented final business report on performance enhancement to senior tech management

**Clover Health** | San Francisco, CA

Jan 2019 – May 2019

*Strategy Consulting Project*

- Presented remote payer/provider market research for Clover Assistant product-market entry in Northeast U.S.
- Worked with MBA/undergraduate team in interviewing 15+ tri-state physicians & Clover-eligible Medicare members

**Perelman School of Medicine Biomedical Informatics** | Philadelphia, PA

Aug 2018 – May 2019

*Moore Lab Research Assistant*

- Co-authored published manuscript improving disease risk prediction score by 30% via ML feature reduction techniques
- Developed GUI for NIH-funded project on patient virtual gene-editing tool: <https://vgmed.herokuapp.com/>

## LEADERSHIP

**Computer Science Department, Penn Engineering** | Philadelphia, PA

Aug 2019 – Present

*CIS545 Big Data Analytics; Graduate Course Teaching Assistant*

- Responsible for teaching weekly recitations & office hours, developing homework problems, grading student work
- Topics taught: Compute clusters, MapReduce sharding, caching, PLSA/SVD, neural networks, data streaming, etc.

**American Red Cross (ARC) National Youth Council** | Washington D.C.

July 2017 – Jan 2019

*Youth Working Group Lead, Executive Committee*

- Oversaw all external-facing projects of Council and grew RC member outreach 18% (26,000+ youth) across 50 states
- Manage team of 6 (half of entire Council) on weekly conference calls to support member projects
- Received Narayan Leadership Excellence Award (1 annually) from National CEO, Gail McGovern at D.C. headquarters

## PROJECTS

**KeyWatch** | Washington D.C.

Summer 2019

*MIT Grand Hacks Breakthrough Technology Award*

- Built ML models for continuous tremor monitoring chrome extension + wearable; 82% Parkinson's prediction accuracy
- Developing product feedback from clinical experts for continuing project towards V2 prototype

**Quill.ai** | Philadelphia, PA

Sept 2018 – June 2019

*Co-Founder*

- Designed working prototype of iOS voice-to-text medical transcription platform after shadowing ER physicians
- 1<sup>st</sup> in Penn Medicine HealthX Pitch Prize; 2<sup>nd</sup> place national winner Sling Health U.S. Competition (of 100+ teams)

## AWARDS & ACTIVITIES

**UN Millennium Fellows:** 1 of 200 global attendees at International Diplomacy Forum; advancing SDG 3: healthcare

**Deloitte National Undergraduate Case Competition (NUCC):** Penn 2<sup>nd</sup> place (of 80+ team applicants)

**Wharton Health Economics Publication:** Statistical analysis of G20 tech appraisal: <https://repository.upenn.edu/spur/24>

*Skills:* Python, R, SQL | Apache Spark, Azure Databricks | Tableau | Git, HTML

*Interests:* The Philomathean Society, Turner Social Impact Society, minimalism, street photography, disaster relief