

JOSH NKOY

PERSONAL PROFILE AND SUMMARY

Cognitive scientist, theoretical computer scientist, and applied logician in training. Main interests include applications of modal logic, causality theory, and AI/ML to cognitive science (e.g. computational neuroscience, memory, consciousness, knowledge). Avid self-studier, quick learner, and "insatiably curious," analytical thinker who can thrive in challenging positions. Experienced in research and growingly adept with entrepreneurship.

WORK AND RESEARCH EXPERIENCE

Communications Committee Chair, 20th Undergraduate Senate

ASSOCIATED STUDENTS OF STANFORD UNIVERSITY (ASSU)
MAY 2018 - NOVEMBER 2018

- Acted as spokesperson for Senate and maintained public meeting archives
- Assisted movement to create community center for disabled individuals
- Oversaw dispersal of >\$2 million to over 700 student organizations
- Advocated for 1% endowment return spending increase toward students

Research Experience for Undergraduates (REU) Intern

MOLECULAR IMAGING INSTRUMENTATION LAB
STANFORD UNIV. DEPT. OF ELECTRICAL ENGINEERING
JUNE 2018 - AUGUST 2018

- Aimed to accelerate positron emission tomography (PET) scans
- Applied differential equations of blood movement, metabolism rates, and blood-renal exchange to approximate the expected positions of radioactive tracers
- Studied 4D parametric PET imaging techniques using maximum-likelihood expectation-maximization (ML-EM) reconstruction algorithms

College Applications Consultant

COLLEGEVINE
AUGUST 2017 - MARCH 2018

- Oversaw two clients who were both accepted to their first choice colleges
- Built comprehensive school lists and created time management models
- Helped ideate, polish and edit essays and supplements

EDUCATION AND BACKGROUND

STANFORD UNIVERSITY

PROSPECTIVE BS IN SYMBOLIC SYSTEMS (COGNITIVE SCIENCE), APPLIED LOGIC FOCUS
SEPTEMBER 2017 - MARCH 2022

- **NOTABLE COURSES TAKEN:** *Programming Abstractions Accelerated (CS 106X)*, *Learning & Memory (PSYCH 45)*, *Computability Theory (PHIL 152)*, *Modal Logic (PHIL 154)*, *Logic Programming (CS 151)*, *Groups & Rings (MATH 120)*
- **NOTABLE 2020-21 COURSES:** *NLP w/ Deep Learning (CS 224N)*, *Prob. Graphical Models (CS 228)*, *Machine Learning (CS 229)*, *Intro. Cognitive Neuroscience (PSYCH 50)*, *Topics in Logic, Information, and Agency (PHIL 359)*
- **ACTIVITIES AND SOCIETIES:** *Stanford Men's Club Rugby*, *Black Men's Forum*

PERSONAL PROJECTS

Navajo Water Initiative

INDEPENDENT PROJECT AND STARTUP IDEATION
JANUARY 2016 - DECEMBER 2017 || JUNE 2019 - SEPTEMBER 2019

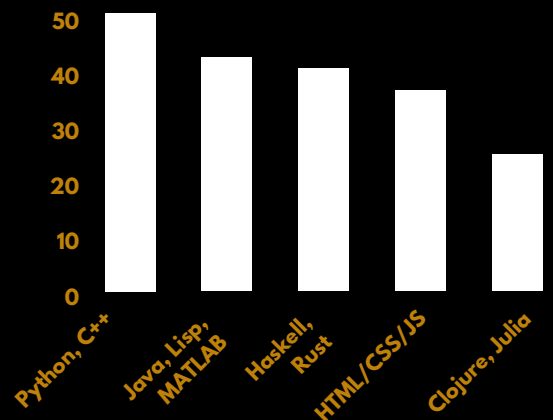
- Coordinating extensive on-site testing of community water supplies, mapping of water distribution, and drafting potential prototypes of a large-capacity, sustainable water filter model
- Conducting research of policy implications of water uncleanliness and public health between the US EPA and the Navajo Nation EPA, with goal of establishing policy team to coordinate with Navajo Nation communities

CONTACT INFORMATION

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SKILLS AND INTERESTS



SKILLS/LANGUAGES I'M LEARNING: *PyTorch (CS 224N)*, *TensorFlow (CS 229)*, *Scala*, *F# (both self-study)*