Nick Gabry
Data Scientist & Bioinformatician

linkedin.com/in/Ngabry | github.com/NGabry

N.T.Gabry@gmail.com | 248.766.9365 | Indianapolis, IN 46254

SKILLS

Primary Languages

Proficient:	Python/Jupyter Notebooks, SQL
Sufficient:	R/Rstudio, Bash/Zsh

Technical Tools

Data Management - MySQL, sqlite, NoSQL/Redis, git, remote HPC, Unix/Linux shell tools

Data Manipulation - Pandas, NumPy, SciPy, grep/awk/sed, SQLite, MS Excel

Machine Learning - scikit-learn, PyTorch, TensorFlow,

Data Visualization - Matplotlib, Seaborn, ggplot, Tableau, ArcGIS

Bioinformatics - QIIME2, BedTools, SamTools, FASTX-Toolkit, FQC, Cutadapt, DADA2, RAxML, mafft, MEGAX, SeqIO

EXPERIENCE

Graduate Assistant · *Indiana State University · Terre, Haute, IN*   **Aug. 2018 – Present**
- Performed 3 next-generation sequencing runs from 150 nestling fecal samples and 70 bulk insect slurries generating close to 60,000,000 short read sequences for metabarcoding
- Developed a naive bayes taxonomic classifier using the BOLD API and scikit-learn implementation in QIIME2 to assign taxonomy to approximately 45,000,000 filtered short read sequences
- Reduced costs of experimentation by more than $10,000 and eliminated common sequencing pitfall known as tag-jumps through design of novel dual indexed fusion-primers compatible with the Ion Torrent sequencing ecosystem
- Oversaw and assisted in the maintenance of a 30+ year long-term SQL database of genetic parentage for a breeding population of white-throated sparrows obtained through fragment analysis of micro-satellite alleles.

Territory Mapping Intern · *Point Blue Conservation Science · Bolinas, CA*   **Mar. 2018 – Aug. 2018**
- Spot-mapped location of singing and calling birds to create hand-drawn territory maps over a breeding season for 20+ species. Data was then converted, synthesized, and visualized using ArcGIS.
- Performed long-term trend analyses of 60 years of weather and breeding data to look for correlations between onset of breeding behavior over the years.

LEADERSHIP

President · *Wabash Valley Audubon Society · Terre, Haute, IN*   **Aug. 2020 – Present**
- Led operations of a local Audubon Chapter consisting of 175 active members, and $20,000 total net assets. Grew membership by a total of 18% over two years.
- Established partnerships with National conservation organizations such as Institute for Bird Populations, Feather Friendly, and Apex Energy to implement and advocate for bird friendly practices within the Wabash Valley area

EDUCATION

PH.D. BIOLOGY (Ecology)	**M.S. COMP SCI (Bioinformatics)**	**B.S. PSYCHOLOGY (Neuroscience)**
Indiana State University	Indiana State University	University of Michigan
Terre Haute, IN / *2023*	Terre Haute, IN / *2023*	Ann Arbor, MI / *2017*