

<p>Natalie DeForest, PhD Bioinformatics Scientist / Computational Biologist</p> <p>(510)-378-1641 nataliedeforest@gmail.com nataliedef.github.io</p>	<p>EDUCATION: PhD Biomedical Sciences, Specialization in Bioinformatics University of California San Diego, La Jolla, CA Sept 2018 – Nov 2023</p> <ul style="list-style-type: none"> • Dissertation: “Leveraging human genetics and functional genomics to investigate insulin resistance disorders” • National Institute of General Medical Sciences T32 Grant Recipient <p>BS Pharmaceutical Chemistry, Minor in Bioinformatics, <i>summa cum laude</i> University of California Davis, Davis, CA June 2018</p> <ul style="list-style-type: none"> • Overall GPA: 3.8, Major/Minor GPA: 3.9
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RELEVANT EXPERIENCE:

Graduate Student Researcher – Laboratory of Dr. Amit Majithia	June 2019 – Present
Department of Medicine, University of California San Diego, La Jolla, CA	
<ul style="list-style-type: none"> • Analyze high-throughput functional genomic screening and large-scale human genetic datasets to identify and evaluate novel therapeutic targets for prevalent metabolic disorders such as diabetes and cardiovascular disease. 	
Research Intern	Gilead Sciences, Foster City, CA June 2018 – Sept 2018
Research Intern	Cytokinetics, South San Francisco, CA June 2017 – Sept 2017
Clinical Data Intern	Pharmacyclics, an Abbvie Company, Sunnyvale, CA June 2016 – Aug 2016

SKILLS:

Technical:

- Analysis of **next generation sequencing & high-dimensional genomic/epigenomic data** (i.e. bulk/single-cell RNA-seq, ChIP-seq)
- Statistical/population **genetics association analyses** (i.e. GWAS, Mendelian Randomization)
- Mining and analyzing relevant public **biological/genomic/transcriptomic databases** (i.e. UK Biobank, GTEx, ENCODE, Ensembl)
- **Scripting languages** (R, Python), **Linux-based environments** (bash), **parallel/high performance computing** (HPC) systems, and **git** version control

General:

- Trained in **collaborating** with computational scientists, experimentalists, and clinicians
- Adept in **perusing scientific literature** and understanding emerging studies
- Strong track record of **scientific publications, conference presentations, and mentoring**
- **Previous industry research experience** and academic-industry collaborations

SELECTED PUBLICATIONS & PRESENTATIONS:

- **DeForest N.** et al. Genome-wide discovery and integrative genomic characterization of insulin resistance loci using serum triglycerides to HDL-cholesterol ratio. *In preparation.*
- **DeForest N.** et al. Human gain-of-function variants in HNF1A confer protection from diabetes but independently increase hepatic secretion of atherogenic lipoproteins. *Cell Genomics*. May 30, 2023. [10.1016/j.xgen.2023.100339](https://doi.org/10.1016/j.xgen.2023.100339).
- **DeForest N.** (August 2022) Activation of PPARG in skeletal muscle and visceral adipose tissues ameliorate NASH biomarkers in humans: implications for therapeutic targeting. Poster presented at Keystone Conference: Inter Organ Crosstalk in NASH, Whistler, Canada.
- **DeForest N.** (June 2022) Human gain-of-function variants in HNF1A confer protection from diabetes but independently increase hepatic secretion of atherogenic lipoproteins. Poster presented at Mutational Scanning Symposium in Toronto, Canada / Virtual.
- **DeForest N, Majithia AR.** Genetics of Type 2 Diabetes: Implications from Large-Scale Studies. *Curr Diab Rep*. 2022 Mar 19. [10.1007/s11892-022-01462-3](https://doi.org/10.1007/s11892-022-01462-3).
- **Du X, DeForest N, Majithia AR.** Human Genetics to Identify Therapeutic Targets for NAFLD: Challenges and Opportunities. *Front Endocrinol*. 2021 Dec 7. [10.3389/fendo.2021.777075](https://doi.org/10.3389/fendo.2021.777075).

REFERENCES: Provided upon request.