Divyae Kishore Prasad

✉ div{DOT}prasad03{AT}gmail{DOT}com 📍 **Utrecht**

INTERESTS	**Research:** quantitative biology, machine learning, computational evolutionary genomics
	Professional: data-driven intelligence, data-integration, reproducible workflows

EDUCATION

M.Sc Molecular and Cellular Life Sciences — **2020**
Universiteit Utrecht, the Netherlands — cumulative grade - **7.66/10**

B.Tech Chemical Engineering — **2014**
Indian Institute of Technology Bombay, India — cumulative grade - **7.02/10**

PROFESSIONAL EXPERIENCE

Teaching assistant, Chemistry, Universiteit Utrecht — May'18 - Jun'18
- worked with dr Eric G. Huizinga for supervising 20 students during the practical biomolecular chemistry

Co-founder: Kairos Food Labs — Mar'15 - Mar'16
- performed targeted surveys to identify key consumer needs and key product attributes
- conceptualized and launched a ready-to-cook food company to create a consumer brand of snacks

Junior research fellow, Chemical Engieering, IIT Bombay — May'14 - Jan'15
- worked with dr Supreet Saini to develop a stochastic in-silico model for investigating the distribution of mutations in evolving microbial populations; neutral mutations dominate the rate of genome evolution

KEY ACADEMIC PROJECTS

Genotype-phenotype mapping, CWI Amsterdam — Oct'18 - Feb'20
- worked with dr Marleen Balvert and prof dr Alexander Schönhuth for developing a deep neural network architecture that can help investigate potential epistasis effects across a microbial pangenome

Phage-host interaction prediction, Theoretical Biology and Bioinformatics — Jul'17 - Sep'18
- worked with dr John van Dam and dr Bas E. Dutilh for identification & integration of genomic phage-host adaptations and implemented machine learning algorithms on large-scale datasets

Research fellowship, TU Kaiserslautern, Germany — May'13 - Jul'13
- worked with dr Benjamin Selmke and prof dr Wolfgang E. Trommer for understanding the protein folding mechanisms & intermittent states of maltose-binding protein, via electron paramagnetic resonance

Student internship, Helmholtz Centre for Environmental Research Leipzig, Germany — Jun'12 - Jul'12
- worked with dr Lorenz Adrian on a project aimed at bio-remediation of soils contaminated with effluents
- tested environmental conditions for anaerobic microbes that mitigates halogenated contaminants

ACADEMIC ACHIEVEMENTS

NWO scholarship for traineeship CWI Amsterdam — Nov'18 - Nov'19
Scholarship for summer internship TU Kaiserslautern — May'13 - Jul'13
Secured **All India Rank 843 (top 0.3%)** in IIT-JEE amongst 500,000+ students — 2010
Graduate Record Examination: Quantitative: **163/170**, Verbal: **156/170**, Total: **319/340** — 2016
School merit list: national 10th grade examination with **94%** aggregate marks — 2010

PROGRAMMING SKILLS

Programming languages: `Python`, `C++`
Scripting languages: `Bash`, `R`, `Scilab`, `Matlab`, LaTeX
Workflows: `TensorFlow`, `conda`, `git`, `Jupyter`, `Snakemake`

POSITIONS OF RESPONSIBILITY

Life Science Representatives, GSLS, UU — Sep'16 - Feb'17
Film and Media Secretary, Hostel 2, IIT-Bombay — May'11 - Apr'12
Sergeant, National Cadet Corps, 4-MP Battalion — Apr'06 - Mar'07

EXTRA-CURRICULARS

Clubs: involved with Pixels - the photography club of IIT Bombay ('11-'14)
Interests: meditation, podcasts, scientific communication, nutrition and ketogenesis
Sports: power-lifting, squash, badminton, biking, trekking
Hobbies: photography, experimental cooking, travelling, electronic music