Divyae Kishore Prasad

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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 Engineering, 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

Literature review, Universität Bielefeld   Apr'20 - Aug'20
○ authored Age is not just 'a' number: *through the lens of systems physiology* (thesis, top 10% grade)
Genotype-phenotype mapping, CWI Amsterdam   Oct'18 - Feb'20
○ worked with dr Marleen Balvert & prof dr Alexander Schönhuth for developing a deep neural network that helps investigate potential epistasis effects across microbial pangenomes (sample-code, report)
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

EXTRACURRICULAR

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
Links: 🔗 divyaePrasad   🐦 @divyaePrasad   🐙 divPrasad