Master Skills List

Gus Dunn

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2 Listing Text

2.1 Org Marketing Statement

All over the world, Pfizer colleagues are working together to positively impact health for everyone, everywhere. Each position at Pfizer touches and contributes to the success of our business and our world. That's why, as one of the global leaders in the biopharmaceutical industry, Pfizer is committed to seeking out inspired new talent who share our core values and mission of making the world a healthier place.

2.2 Role Description

As part of the Computational Sciences Center of Emphasis, apply and possibly develop advanced analysis and mining approaches to inform target / biomarker identification and compound selection. The successful candidate will be responsible for performing **integrative analysis** relating molecular entities, in-vitro/in-vivo/clinical biological activities, and complex phenotypes in a quantitative way and deliver testable hypotheses in high quality presentations/publications. The ideal candidate will have demonstrated expertise with data mining methods upon large-scale, multidimensional molecular datasets, and possess expertise in mining structured data and unstructured/text information and be able to identify gaps in current methodologies and define requirements for solutions to address these gaps.

2.3 Responsibilities

- Perform computational analysis efforts of high-dimensional datasets from model systems, experimental medicine and clinical trials to identify novel targets, biomarkers, mechanisms of resistance, and effective therapeutic combinations through the translation of bioinformatics data.
- Deliver testable hypotheses/insights from complex multidimenstional data to inform target/compound selection, biomarker identification and patient stratification in high quality presentations & publications.
- Identify and validate innovative approaches to improve quality and efficiency of hypothesis generation from experimental data

- Maintain current awareness of emerging approaches and methods in computational biology and provide ad-hoc support to cross-disciplinary project teams.

2.4 Qualifications

Education and Experience: PhD in Computer Science, Mathematics, Statistics, Biological Sciences, relevant natural sciences required, 1-2 years relevant experience applying quatitative approaches to solving biological problems, ideally in a pharmaceutical, biotech or comparable context.

2.5 Technical Skills:

- Demonstrated expertise in delivering insights/hypotheses from complex multi-dimensional biological data in a biomedical context.
- Demonstrated experience applying, defining and validating computational approaches to deliver insights/hypotheses, e_g_ multivariate, Bayesian and machine learning approaches.
- Pharmaceutically relevant experience or formal training in computational chemistry/biology, computer science, physics, applied mathematics, or statistics
- Demonstrated ability for sound experimental design for in-silico experimentation/workflows required, in addition to ability to effectively interface with Research Unit biologist to communicate/discuss results, ideas, and follow-up experiments.
- In depth knowledge of relevant public and proprietary databases, methods and tools.
- Exceptional communication skills (oral and written) as demonstrated by publications & presentations.

3 Resume

3.1 Contact information

W. Augustine Dunn III US Citizen 132 Nicoll St FL 1 New Haven CT, 06511 email: gus.dunn@yale.edu | primary phone: 770-312-9544

3.2 Objective or Summary (optional)

3.3 HIGHLIGHTS/SKILLS/QUALIFICATIONS/PROFILE

3.3.1 Qualifications

3.3.2 Technical expertise

3.4 Education

Degree: Doctor of Philosophy in Biological Sciences
University: University of California, Irvine Irvine, CA
Graduation: March 2014
Adviser: Dr. Anthony James
Co-Adviser: Dr. Xiaohui Xie
Topic: *Comparative transcriptomics of blood-feeding in midguts of three disease-vector mosquito species.*

Degree: Bachelor of Science
University: University of Georgia Athens, GA
Graduation: 2003
Major: Biology

3.5 Experience

3.6 Awards/Honors/Fellowships/Etc

- 2011 The Pacific-Southwest Regional Center of Excellence for Biodefense and Emerging Infectious Diseases Annual Meeting Travel Award
- 2010/2011 President of UCI's IGB Biomedical Informatics Training fellows
- 2009–2012 Biomedical Informatics Training fellow (NIH/NLM 5T15LM007443)

Activities/Interests