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Aaron Brooks/PhDc

Science of complex biological systems

Mail

Web

aaron.brooks@ systemsbiology.org brooksan@ uw.edu

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Publications

DJ Reiss, CL Plaisier, W Wu, AN Brooks, NS Baliga. Python cMonkey. In preparation.

CL Plaisier, FY Lo, J Ashworth, **AN Brooks**, KD Beer, A Kaur, M Pan, DJ Reiss, FT Facciotti, NS Baliga . **Evolution of Context Dependent Regulation by Expansion of Feast/Famine Regulatory Proteins.** *Submitted.*

DM Salvanha, **AN Brooks**, DJ Reiss, RZN Vêncio, NS Baliga. **iGB**^{web}: **an interactive genome browser for the web**. *Submitted*.

H Westerhoff*, **AN Brooks***, E Simeonidis*, R García-Contreras*, F Boogerd, F He, VJ Jackson, V Goncharuk, A Kolodkin. **Macromolecular networks and intelligence in microorganisms.** *Accepted Frontiers in Microbiology.*

AN Brooks*, DJ Reiss*, A Allard, W Wu, DM Salvanha, CL Plaisier, S Chandrasekaran, M Pan, A Kaur, NS Baliga. **A system-level model for the microbial regulatory genome.** *In press Mol Sys Biol.*

AN Brooks, S Turkarslan, KD Beer, FY Lo, NS Baliga. **Adaptation of cells to new environments.** *Wiley Interdiscip Rev Syst Biol Med.* 2010 Dec 31. PMID: 21197660

* Denotes equal contribution

Education

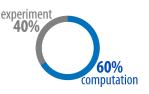
2008 - 2014 PhD in Molecular and Cellular Biology

University of Washington

Thesis: "Data-driven inference of dynamic transcriptional regulatory mechanisms in prokaryotes: a systems perspective."

Advisor: Prof. Nitin Baliga, Institute for Systems Biology

Research Breakdown



2002 - 2007 BS in Biochemistry, Summa Cum Laude

University of New Mexico

Thesis: "Characterization of the dynamic interactions of cytoplasmic poly(A)

binding protein with poly(A) RNA."

Thesis Honors: Robert B. Loftfield Award

Advisor: Prof. David G. Bear

Research Interests

2002 - 2007

BA in Political Science, Summa Cum Laude

University of New Mexico

General University Honors

Minor: Philosophy



In the news

05/2014 Knowing Networks

NIH NIGMS Inside Life Science

Outreach at USA Science and Engineering Festival

Awards

Wetlab
MolBio ★★★★★
Cytometry ****
Expression ****
Bioreactor ★★★★★
Sequencing ★★★★
Microscopy ★★★★

2010-2013 Office of Science Graduate Fellowship	Department of Energy
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National Science Foundation

2009 Graduate Research Fellowship

Honorable Mention

Microscopy **** 2006 Goldwater Scholarship Barry M. Goldwater Foundation

Programming R ****

Teaching & Outreach

2014 USA Science and Engineering Festival Washington, D.C Designed and facilitated a hands-on activity and web-based game to understand the structure and function of networks. Over 300 children have played

the online game.

2011 Introduction to Systems Biology Institute for Systems Biology

Co-organizer, lecturer

2009-now Science Communication Fellow Pacific Science Center, Seattle WA

2010 Graduate Teaching Assistant Microbiology, University of Washington

MICRO 411: Gene Action

2005-2006 **Education Assistant** Biochemistry, University of New Mexico

BIOCHEM 445: Intensive Biochemistry BIOCHEM 448: Biochemical Methods

Research Summary



Students mentored

08-12/2012 Robin Green PhD student at University of Washington, WA

Currently at Fred Hutchinson Cancer Research Center

05-08/2011 Darach Miller Undergraduate at UC Davis, CA

Currently PhD student at NYU

05-08/2010 Alexis Valauri-Orton Undergraduate at Davidson College, NC

Currently Watson Fellow

Other

2011 Complex Systems Summer School Santa Fe Institute

2010 MCB Student Symposium Fred Hutchinson Cancer Research Center

Co-organizer, Bioplasticity: flexibility within and beyond the code

References

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Elhanan Borenstein, PhD University of Washington

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