# Daniel C. Morgan

Systems Riology & Bioinformatics . Ph D

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#### Education \_\_\_\_\_

#### Stockholm University, Sonnhammer Lab

SciLifeLab Stockholm, SE

**DOCTORATE OF COMPUTATIONAL SYSTEMS BIOLOGY** 

April 2019

- Co-Lead collaborative project with Nelander lab @ Uppsala University
- Posters at ICSB 2018 in Lyon and ISMB 2017 in Prague
- Accepted into and completed ISYCB summer program 2015

#### The Ohio State University, Chen & Huang Labs

Columbus, OH

MASTER OF BIOINFORMATICS

Dec 2014

- Thesis A Gene Co-expression Network Mining Approach for Differential Expression Analysis
- · OSU Hayes Graduate Research Forum Genomic Algorithm Identifies Herbals as Potential treatment in Bladder Cancer

#### Miami University, Fisk & Letterio Labs

Oxford, OH

BACHELOR OF MICROBIOLOGY | CONCENTRATION: BIOCHEMISTRY & MOLECULAR BIOLOGY

May 2011

- MU Spring Research Forum The Real Threat of Invasive Species to Southern Ohio Forest Health
- CWRU Research Conference The Role of Cdk5 in the Survival, Proliferation, and Migration of the Medulloblastoma

### Experience \_\_\_\_\_

# Channing Division of Network Medicine, Brigham and Women's Hospital and Harvard Medical School

Boston, MA

POSTDOCTORAL RESEARCH FELLOW

2019-current

- Integrating multi-tissue, multi-omics across subject time points to detail lung disease as process of premature aging
- · Investigating methylation potential to describe TF binding affinity for use in multi-omic GRN inference
- · Sex-specific drug repositioning for COPD

Nordling Lab

ME@NCKU, Taiwan

VISITING SCHOLAR Feb 2017- May 2017

 $\bullet \ \ \text{Designing novel systems approach to balancing \& minimizing input and output noise in linear models.}$ 

**Elevada** San Diego, CA

BIOINFORMATICS DATA ANALYST

June 2014- Dec 2015

- Remote testing and data analysis and extraction using novel web app & R back-end.
- Expanding Myelodysplastic Syndrome/ Acute Myeloid Leukemia project project to allow customers to compare disparate studies, as well as to primary data through incorporation of ontologies.

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## Publications \_\_\_\_\_

2020	Leveraging methylation information to predict 1F binding: a benchmark study, Morgan D,	(under review)
2020	Glass K, DeMeo D	(under review)
	gpuPANDA: Efficient estimation of gene regulatory networks using the Graphical Processing	(drafted)
2020	Unit, Guebila M, Morgan D, Quackenbush J	(draited)
	Perturbation-based gene regulatory network inference to unravel oncogenic mechanisms,	Scientific Reports,
2020	Morgan D , Studham M, Tjärnberg A , Nordling T.E.M. , Sonnhammer E.L.L.	Article no: 14149
	$\textbf{A Generalized Framework for Controlling FDR in Gene Regulatory Network Inference}, \ \textbf{Morgan}$	Bioinformatics
2018	D, Tjärnberg A , Nordling T.E.M. , Sonnhammer E.L.L.	PMID:30169550
	GeneSPIDER - Gene regulatory network inference benchmarking with controlled network and	Mol. BioSystems,
2017	<b>data properties</b> , Tjärnberg A <sup>†</sup> , Morgan D <sup>†</sup> , Nordling T.E.M. , Sonnhammer E.L.L.	PMID:28485748
2015	A Gene Co-Expression Network Mining Approach for Differential Expression Analysis, Morgan	OSU library,
	D, Huang K	osu1416989632