

# Daniel C. Morgan

SYSTEMS BIOLOGY & 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, NIH TRAINEE

2019-2022

- Focused on the application of genomic and network modeling methods to multi-omics datasets

### Nordling Lab

ME@NCKU, Taiwan

VISITING SCHOLAR

Feb 2017- May 2017

- 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.

## Publications

2019	<b>Large-scale Gene Regulatory Network Inference Reveals General and Specific Oncogenic Mechanisms</b> , Morgan D, Secilmis D, Sonnhammer E.L.L.	<i>in-progress</i>
2018	<b>Perturbation-based gene regulatory network inference to unravel oncogenic mechanisms</b> , Morgan D, Studham M, Tjärnberg A, Nordling T.E.M., Sonnhammer E.L.L.	<i>PLOS CompBio (submitted)</i>
2018	<b>A Generalized Framework for Controlling FDR in Gene Regulatory Network Inference</b> , Morgan D, Tjärnberg A, Nordling T.E.M., Sonnhammer E.L.L.	<i>Bioinformatics, PMID:30169550</i>
2017	<b>GeneSPIDER - Gene regulatory network inference benchmarking with controlled network and data properties</b> , Tjärnberg A <sup>†</sup> , Morgan D <sup>†</sup> , Nordling T.E.M., Sonnhammer E.L.L.	<i>Mol. BioSystems, PMID:28485748</i>
2015	<b>A Gene Co-Expression Network Mining Approach for Differential Expression Analysis</b> , Morgan D, Huang K	<i>OSU library, osu1416989632</i>