BRANDON MORETZ

Quantitative Development

Please note that this is a *real* resume, and I'm really looking for a PhD student position at the moment. I made this resume because Yihui asked me if I'd like to test the **pagedown** package with my resume. If you are interested in my background and skills, please feel free to contact me.
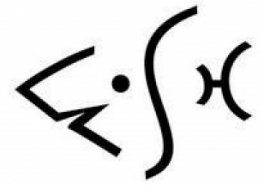
🎓 EDUCATION

Dec '19
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Mar '18

M.S., Data Science
Northwestern University ⦿ Evanston, IL

- Analytics and modeling specialization emphasizing applied statistics.
- Emphasis on both supervised and unsupervised statistical learning techniques.
- Financial engineering and risk analytics as electives.

Dec '06
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Aug '04

B.S., Computer Science (minor Mathematics)
Western Carolina University ⦿ Cullowhee, NC

- Something smart.

💼 PROFESSIONAL EXPERIENCE

Dec '19
|
Feb '13

Head of Development
MSD Capital, L.P. ⦿ New York, NY

Head of Development	*Jan 2016 - Present*
Mar 2015 - Dec 2016	Technical Lead
Jan 2015 - Dec 2017	Senior Developer

Head of Development	*Jan 2016 - Present*
Mar 2015 - Dec 2016	Technical Lead
Jan 2015 - Dec 2017	Senior Developer

- Performed computational biology research towards understanding regulation of alternative splicing in human and mouse transcriptome.
- Found EGFR pathway related mutations, aimed to understand the impacts of cancer mutations on EGFR signaling pathway.

🖥 RESEARCH EXPERIENCE

2011
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2014

Graduate Research Assistant
Beijing Institute of Genomics, Chinese Academy of Sciences ⦿ Beijing, China

- Performed computational biology research towards understanding regulation of alternative splicing in human and mouse transcriptome.
- Found EGFR pathway related mutations, aimed to understand the impacts of cancer mutations on EGFR signaling pathway.

2015
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2016

Bioinformatican
My Health Gene Technology Co., Ltd. ⦿ Beijing, China

- Investigated how cancer cells spread to other parts of the body at the single cell level.

2016
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2018

Visiting Scientist
University of Alabama at Birmingham ⦿ AL, USA

- Investigated the role of mitochondria in development of cancer.
- Investigated the evolution of genome architecture and its role in important evolutionary events.
- Detected thrombotic thrombocytopenic purpura related mutations in mutiple patients' blood genome.

CONTACT

- ✉ bmoretz@ionicsolutions.net
- in LinkedIn
- ⦿ Github
- 📄 Stack Overflow
- 🔊 Blog
- 📞 +1 347-891-2826

For more information, please contact me via email.

LANGUAGE SKILLS

Experienced in statistical analysis, statistical learning models, and optimization methods.

Full experience with next generation sequencing data analysis.

Highly skilled in R, Bash, Perl, Python, LaTeX

TEACHING EXPERIENCE

2014
Introduction to R Language for Beginners.
Instructor of R and Data Mining Training Courses at SupStat Inc. 📍 Beijing, China

**2016
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2017**
Computational Biology and Bioinformatics.
Teaching assistant of GBS CB2-201 courses at UAB 📍 AL, USA

SELECTED PUBLICATIONS AND POSTERS

2014
Genetic and epigenetic signals are found predictive to the distribution of intra-individual divergence of alternative splicing.
Poster for 2013 International Conference of Genomics 📍 Qingdao, China

Yu L, Chen B, Zhang Z.

2016
ESCRT-0 complex modulates Rbf mutant cell survival by regulating Rhomboid endosomal trafficking and EGFR signaling.
J Cell Sci. 2016 May 15;129(10):2075-84.

Sheng Z, Yu L, Zhang T, Pei X, Li X, Zhang Z and Du W.