## Xianjun Dong, Ph.D.

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### **PART I: GENERAL INFORMATION**

### Education

1998 - 2002	B.Sc., Biomedical Engineering, Southeast University, China
2002 - 2005	M.Sc., Biomedical Engineering, Southeast University, China
2005 - 2010	Ph.D., Bioinformatics, University of Bergen, Norway
	Advisor: Drs. Boris Lenhard and Rein Aasland

#### **Postdoctoral Training**

09/10-09/13 Postdoctoral Associate, Program of Bioinformatics and Integrative Biology, University of

Massachusetts Medical School (Dr. Zhiping Weng)

## Appointments at Hospitals/Affiliated Institutions

11/13-present Instructor, Department of Neurology, Harvard Medical School

09/13-present Assistant Scientist in Neurology, Brigham and Women's Hospital (Dr. Clemens Scherzer)

### **Other Professional Positions**

2005 - 2005 Manager Trainee / Process Engineer, P&G

# **Major Administrative Leadership Positions**

2013 - present	Bioinformatics team lead in Neurogenomics Laboratory, Harvard Medical School
2007 - 2007	Organizer of the "EnsEMBL in a Nutshell" Bioinformatics Workshop, University of Bergen
2005 - 2007	President, Chinese Students and Scholars Association (CSSA) of Bergen, Norway

### **Professional Societies**

2006 - present	International Society for Computational Biology (ISCB), Member
2013 - present	American Society for Human Genetics (ASHG), Member
2017	TI 10th A 1 DNA D E C I 1

The 10<sup>th</sup> Annual DNA Day Essay Contest, Judge

#### **Honors and Prizes**

2000	2 <sup>nd</sup> prize of the National Undergraduate Mathematical Contest in Modeling
2000	Liu Yonglin Fellowship Award, Southeast University, China
2000	Distinguished Student with 1 <sup>st</sup> grade Scholarship, Southeast University, China
2001	1 <sup>st</sup> prize of 2001 "Sony Cup" National Undergraduate Electronic Design Contest, China
	(winning by designing a robot-controlled electronic car)
2001	Meritorious winner (top 10%) in the international Mathematical Contest in Modeling
	(MCM) (winning by modeling the growth control of Zebra mussels in the Great Lakes)
2001	Distinguished Student with 1 <sup>st</sup> grade Scholarship, Southeast University, China
2002	Distinguished Graduate Student Award, Southeast University, China
2009	Full Scholarship, "Chromatin Domains and Insulators" Workshop, Spain
2009	Travel Fellowship, MCB Research School, University of Bergen, Norway
2010	Chinese Government Award for Outstanding Self-financed Students Abroad, Ministry of
	Education, China (1 of 500 annual awardees in the world wide)
2015	Reviewers' Choice – top 10% best posters in the American Society of Human Genetics
	(ASHG) meeting, US

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#### Service to Professional Publications

- Invited reviewer - (Total: 26 times for 15 journals)

2011 - present *PLoS Computational Biology* (1 paper)

2011 - present Genome Research (1 paper)

2012 - present Nature Biotechnology (1 paper)

2013 - present *PLoS ONE* (2 paper)

2013 - present Genome Biology (2 paper) 2014 - present Bioinformatics (5 paper)

2014 - present *Bioinformatics* (3 paper)
2014 - present *PLoS Genetics* (1 paper)

2014 - present Evolutionary Bioinformatics (2 paper)

2014 - present International Journal of Biological Sciences (3 paper)

2014 - present *Journal of Biomedical Informatics* (2 paper)

2014 - present *Movement Disorders* (1 paper)

2014 - present The Pharmacogenomics Journal (1 paper)

2015 - present *Current Bioinformatics* (2 paper)

2015 - present Neurogenetics (1 paper)

2015 - present Journal of Bioinformatics and Computational Biologys (1 paper)

## **Funding Information**

#### - Past -

2008 - 2012 Title: EDAC: ENCODE Data Analysis Center

Grant number: U01 HG004695-04

Goal: The goal of this project is to perform integrative analysis on ChIP-Seq, FAIRE-Seq

and RNA-Seq data as a part of the ENCODE data analysis center.

Role: Bioinformatics engineer

### - Current -

2011 - 2016 Title: Epigenetic Markers in Huntington's Disease Brain

Grant number: R01 NS073947

Goal: The goal of this project is to map, genome-wide HD disease-related changes in histone

methylation markings in prefrontal neurons.

Role: Bioinformatics analyst

2013 - 2016 Title: A Next Generation of Biomarkers for Incipient Huntington's Disease

Grant number: U01 NS082080

Goal: The goal of this project is to establish a national RNA biobank resource and develop

digital biofluid markers useful for tracking disease progression.

Role: Co-investigator

#### - Current unfunded -

2015-2016 Title: Discovery of a new microcosm of circular RNAs in neurons of human brain

Grant: BWH Institute for the Neurosciences – Neuroscience Seed Grants

Goal: The goal of this project is to define circular RNAs and validate its function in human

dopamine neurons.

Role: PI

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## PART II: REPORT OF TEACHING, TRAINING, AND PRESENTATIONS

## **Teaching of Students in Courses**

2007 EnsEMBL in a Nutshell, Bergen Center of Computational Science, University of Bergen,

Norway Role: Lecturer

National-wide bioinformatics students / researchers, 8-hr sessions per day for 5 days

## Laboratory and Other Research Supervisory and Training Responsibilities

2013 - present Bioinformatics training and supervision of the bioinformatics staff, students, engineers

Daily mentorship for 3 years

## **Formally Supervised Trainees / Students**

2009 - 2012	Yogita Sharma (graduate student in University of Bergen, Norway)
	Mentor, co-supervisor for her research project & thesis, and co-author of one article in BMC
	Bioinformatics
2013 - 2014	Carmen Portenkirchner (MD candidate in Paracelsus Medical University, Austria)
	Thesis co-advisor, research advisor
2013 - 2014	Dr. Shuilin Jin (visiting research scholar from Harbin Institute of Technology, China)
	Co-supervisor, Bioinformatics trainer
2014 - 2015	Alyssa Ehrlich (1 <sup>st</sup> year graduate student in Harvard University)
	Research advisor for her proposal and her internship in the laboratory
2014 - 2015	Ruoting Wang (undergraduate in University of Massachusetts)
	Supervisor, research advisor for his summer internship in the neurogenomics laboratory
2015 - 2015	Will Nemirovsky (junior high school student in BB&N)
	Supervisor, research advisor for his summer bioinformatics training in Harvard
2015 - 2016	Dr. Yunfei Bai (visiting scholar from Southeast University, China)
	Co-supervisor, Bioinformatics trainer
2015 - 2017	Tao Wang (PhD Joint Training Program student, Harbin Institute of Technology, China)
	Supervisor, research advisor for his two-year bioinformatics training in Harvard
2016 -2016	Ellen DeGennaro (graduate student in Harvard-MIT HST PhD program)
	Supervisor, research advisor for her proposal and her internship in the laboratory

## **Invited Presentations**

- Local -	
2011	Correlate histone modifications and gene expression / BIB seminar (UMass Medical School)
2012	Redefining the piRNA-producing loci of the mouse testis as genes / Invited Bioinformatics
	talk (UMass Medical School)
2014	From ENCODE to PD Brain Map: Bioinformatics in Big Data Research / The Center for
	Neurologic Diseases' ADPD seminar series (Harvard Institute of Medicine, BWH)
2015	The BRAINCODE consortium: Decoding neuronal genome function in human brain / The
	Center for Neurologic Diseases' ADPD seminar series (Harvard Institute of Medicine,
	BWH)

## - Regional -

2007	Remnants of lost bystander genes under non-coding selection pressure in human-zebrafish
	synteny blocks (BREW 2007, Norway)
2012	Modeling gene expression with chromatin features (ENCODE conference, MIT)
2013	Studying gene regulation using comparative genomics and epigenomics (DFCI / HMS)
2013	Studying gene regulation using comparative genomics and epigenomics (BWH / HMS)
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#### - National -

2011	Modeling gene expression with chromatin features / Invited talk (ENCODE conference,
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Stanford University)

2013 Long-range gene regulation in vertebrates genome (Berkeley Lawrence Laboratory)

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- International -

2010 Translog, a web browser for studying the expression divergence of homologous genes (The

8<sup>th</sup> Asia Pacific Bioinformatics Conference, India)

2010 Web resources to study the expression divergence of homologous genes (Huazhong

Agricultural University, China)

2010 Evolutionary mechanisms of developmental long-range gene regulation in vertebrate

genomes (GIS, Singapore)

2013 Studying gene regulation using comparative genomics and epigenomics (Southeast

University / Huazhong Agricultural University / Tongji University, China)

2015 NGS and its application in translational medicine (Tongji Hospital, China)

## PART III: REPORT OF ACTIVITIES AND INNOVATIONS

## **Technological and Other Scientific Innovations**

Synorth A website designed for genome research, allowing to explore the evolution of synteny and

long-range regulatory interactions between vertebrate genomes

URL: http://synorth.genereg.net

Published as first author on *Genome Biology* (Impact factor: 10.30), 13 citations

Translog A website designed to study the expression divergence of homologous genes

URL: http://translog.genereg.net

Published as first author on *BMC Bioinformatics* (Impact factor: 3.02)

Factorbook A Wiki-based database for transcription factor-binding data generated by the ENCODE

consortium

URL: http://factorbook.org

Published as co-author on Nucleic Acid Research (Impact factor: 8.28), 4 citations

### **Educational Activities to the Community**

2012 Innovation Month in the Worcester Public Schools: How to extract DNA from an onion

Claremont Academy, Worcester

http://www.umassmed.edu/news/2012/education/gsbs-students-take-science-on-road.aspx

2008 – present Founder of bioinformatics blog, "One Tip Per Day" (http://onetipperday.blogspot.com/),

which has 200 visit per day on average and more than 520,000 visits in total

## Media Coverage

ENCODE CNN: http://www.cnn.com/2012/09/05/health/encode-human-genome/

consortium, Dong et al. *Nature*, 2012

BBC: http://www.bbc.com/news/health-19202141

Scientific American: <a href="http://www.scientificamerican.com/article/junk-dna-encode/">http://www.scientificamerican.com/article/junk-dna-encode/</a>

Evolution News: <a href="http://www.evolutionnews.org/2012/09/junk\_no\_more\_en\_1064001.html">http://www.evolutionnews.org/2012/09/junk\_no\_more\_en\_1064001.html</a>
New York Times: <a href="http://www.nytimes.com/2012/09/06/science/far-from-junk-dna-dark-nyt/more\_en\_inlockled.html">http://www.nytimes.com/2012/09/06/science/far-from-junk-dna-dark-nyt/more\_en\_inlockled.html</a>

matter-proves-crucial-to-health.html

encode

8398-0327ab83ab91\_story.html

Dong et al. *Genome* Biology, 2012

Genomeweb: <a href="http://www.genomeweb.com/blog/week-genome-biology-59">http://www.genomeweb.com/blog/week-genome-biology-59</a>

Biomed Central: http://blogs.biomedcentral.com/bmcblog/2012/09/07/human-genomics-

comes-of-age-encode-open-access-and-biomed-central/

Umassmed News: http://www.umassmed.edu/news/news-archives/2012/09/umms-faculty-

integral-to-consortium-decoding-human-genome/

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### **Original Articles**:

- 1. Mungpakdee S, Seo HC, Angotzi AR, **Dong X**, Akalin A, et al. Differential evolution of the 13 Atlantic salmon Hox clusters. *Molecular biology and evolution*. 2008; 25(7):1333-43. PMID: 18424774
- 2. **Dong X**, Fredman D, Lenhard B. Synorth: exploring the evolution of synteny and long-range regulatory interactions in vertebrate genomes. *Genome biology*. 2009; 10(8):R86. PMID: 19698106, PMCID: PMC2745767
- 3. Akalin A, Fredman D, Arner E, **Dong X**, Bryne JC, et al. Transcriptional features of genomic regulatory blocks. *Genome biology*. 2009; 10(4):R38. PMID: 19374772, PMCID: PMC2688929
- 4. **Dong X**, Akalin A, Sharma Y, Lenhard B. Translog, a web browser for studying the expression divergence of homologous genes. *BMC bioinformatics*. 2010; 11 Suppl 1:S59. PMID: 20122234, PMCID: PMC3009532
- 5. **Dong X**, Navratilova P, Fredman D, Drivenes Ø, Becker TS, et al. Exonic remnants of whole-genome duplication reveal cis-regulatory function of coding exons. *Nucleic acids research*. 2010; 38(4):1071-85. PMID: 19969543, PMCID: PMC2831330
- 6. A user's guide to the encyclopedia of DNA elements (ENCODE). *PLoS biology*. 2011; 9(4):e1001046. PMID: 21526222, PMCID: PMC3079585
- 7. Yildirim O, Li R, Hung JH, Chen PB, **Dong X**, et al. Mbd3/NURD complex regulates expression of 5-hydroxymethylcytosine marked genes in embryonic stem cells. *Cell*. 2011; 147(7):1498-510. NIHMSID: NIHMS343144 PMID: 22196727, PMCID: PMC3252821
- 8. **Dong X**, Greven MC, Kundaje A, Djebali S, Brown JB, et al. Modeling gene expression using chromatin features in various cellular contexts. *Genome biology*. 2012; 13(9):R53. PMID: 22950368, PMCID: PMC3491397
- 9. Wang J, Zhuang J, Iyer S, Lin X, Whitfield TW, et al. Sequence features and chromatin structure around the genomic regions bound by 119 human transcription factors. *Genome research*. 2012; 22(9):1798-812. PMID: 22955990, PMCID: PMC3431495
- 10. Cheng C, Alexander R, Min R, Leng J, Yip KY, et al. Understanding transcriptional regulation by integrative analysis of transcription factor binding data. *Genome research*. 2012; 22(9):1658-67. PMID: 22955978, PMCID: PMC3431483
- 11. An integrated encyclopedia of DNA elements in the human genome. *Nature*. 2012; 489(7414):57-74. NIHMSID: NIHMS381381, PMID: 22955616, PMCID: PMC3439153
- 12. Wang J, Zhuang J, Iyer S, Lin XY, Greven MC, et al. Factorbook.org: a Wiki-based database for transcription factor-binding data generated by the ENCODE consortium. *Nucleic acids research*. 2013; 41(Database issue):D171-6. PMID: 23203885, PMCID: PMC3531197
- 13. Li XZ, Roy CK, **Dong X**, Bolcun-Filas E, Wang J, et al. An ancient transcription factor initiates the burst of piRNA production during early meiosis in mouse testes. *Molecular cell*. 2013; 50(1):67-81. NIHMSID: HHMIMS469552 PMID: 23523368, PMCID: PMC3671569
- 14. Hoss AG, Kartha VK, **Dong X**, Latourelle JC, Dumitriu A, et al. MicroRNAs located in the Hox gene clusters are implicated in huntington's disease pathogenesis. *PLoS genetics*. 2014; 10(2):e1004188. PMID: 24586208, PMCID: PMC3937267
- 15. Haberle V, Li N, Hadzhiev Y, Plessy C, Previti C, et al. Two independent transcription initiation codes overlap on vertebrate core promoters. *Nature*. 2014; 507(7492):381-5. PMID: 24531765
- 16. **Dong X**, Tsuji J, Labadorf A, Roussos P, Chen JF, et al. The Role of H3K4me3 in Transcriptional Regulation Is Altered in Huntington's Disease. *PloS one*. 2015; 10(12):e0144398. PMID: 26636336, PMCID: PMC4670094
- 17. Bai G, Cheung I, Shulha HP, Coelho JE, Li P, et al. Epigenetic dysregulation of hairy and enhancer of split 4 (HES4) is associated with striatal degeneration in postmortem Huntington brains. *Human molecular genetics*. 2015; 24(5):1441-56. PMID: 25480889, PMCID: PMC4321450
- 18. Locascio JJ, Eberly S, Liao Z, Liu G, Hoesing AN, et al. Association between α-synuclein blood transcripts and early, neuroimaging-supported Parkinson's disease. *Brain*. 2015; 138(Pt 9):2659-71. PMID: 26220939, PMCID: PMC4643625

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### **Reviews:**

- 1. Fredman D, **Dong X**, Lenhard B. Making enhancers from spare parts of the genome. *Genome biology*. 2011; 12(12):138. PMID: 22206586, PMCID: PMC3334608
- 2. **Dong X**, Weng Z. The correlation between histone modifications and gene expression. *Epigenomics*. 2013; 5(2):113-6. NIHMSID: NIHMS598474, PMID: 23566087, PMCID: PMC4230708

### **Public Science:**

1. **Dong X**. The brainstorm. *IEEE Potential*. 2009 Vol. 28, No.1.

## Thesis:

1. **Dong X**. Evolutionary mechanisms of developmental long-range gene regulation in vertebrate genomes. 2010

## **Abstracts, Poster Presentations Presented at Professional Meetings:**

- 1. **Dong X**, Xie J, Lu Z. PatternExplorer2.0: a tool to explore related genes with random pattern sequence in genome. *The International Forum on Biochip Technologies (IFBT2004)*, Beijing, China, 2004.
- 2. **Dong X**, Zhang L, Lu Z. Why SARS virus only infects the lung of human? A model to analyze the association of virus attachment proteins and cell receptors. *The 2nd International Forum on Post-Genome Technologies (2'IFPT)*, Nanjing, 2004.
- 3. Xie J, Sun X, Lu Z, Xue W, **Dong X**, Lu Z. gWord: A Tool for Genome-Wide Word Search and Count. *Proceeding of Bioinformatics and Biomedical Engineering*, 2007. ICBBE 2007.
- 4. **Dong X.** Remnants of lost bystander genes under non-coding selection pressure in human-zebrafish synteny blocks. *Bioinformatics Research and Education Workshops (BREW)*, Bergen, Norway, 2007. **(Oral)**
- 5. **Dong X**, Fredman D, Engström P, Lenhard B. Reconstructing the Evolutionary History of Genomic Regulatory Blocks in Vertebrates. *The 15<sup>th</sup> Annual International Conference on Intelligent Systems for Molecular Biology (ISMB)*, Austria, 2007.
- 6. **Dong X**, Akalin A, Fredman D, Lenhard B. Distribution of highly conserved non-coding elements in *Danio rerio*. *The 5<sup>th</sup> Asia Pacific Bioinformatics Conference (APBC)*, Hong Kong, 2007.
- 7. **Dong X**, Sheng Y, Gupta P, Lenhard B. Computational prediction of ncRNAs as target genes in genomic regulatory blocks. *The 6<sup>th</sup> Asia Pacific Bioinformatics Conference (APBC)*, Japan, 2008.
- 8. **Dong X**, Fredman D, Lenhard B. GRB Evolution Browser: a web resource for exploring evolutionary behaviours of vertebrate genomic regulatory blocks. *The 4th EMBO Conference: From Functional Genomics to Systems Biology*, Germany, 2008.
- 9. **Dong X**, Akalin A, Fredman D, Lenhard B. Evolutionary dynamics of genomic regulatory blocks: HCNEs and HARs, the content and the boundaries. *The 7<sup>th</sup> Asia Pacific Bioinformatics Conference (APBC)*, China, 2009
- 10. **Dong X.** Translog, a web browser for studying the expression divergence of homologous genes. The  $\delta^{th}$  Asia Pacific Bioinformatics Conference (APBC), Bangalore, India, 2010. (Oral)
- 11. **Dong X**. Predicting gene expression using histone modifications. ENCODE Conference, Stanford, 2011.
- 12. **Dong X**. Correlating histone modifications and gene expression. *Systems Biology: Global Regulation of Gene Expression*, CSHL, 2012.
- 13. **Dong X**. Modeling gene expression with chromatin features. ENCODE Conference, MIT, 2012. (Oral)
- 14. Liao Z, Zheng B, **Dong X**, Vanderburg CR, Locascio JJ, Pochet N, Regev A, Portenkirchner C, Altmann P, Jin S, Beach TG, Adler CH and Scherzer CR. The PD Brain Map: Mapping the Transcriptional Architecture of Dopamine Neurons in Human Brain. *The American Society of Human Genetics (ASHG)*, Boston, 2013.
- 15. **Dong X**, Liao Z, Gritsch D, Guennewig B, Hadzhiev Y, Bai Y, Liu G, Zheng B, Blauwendraat C, Hu Q, Adler CH, Hedreen JC, Frosch MP, Faull R, Nelson PT, Locascio J, Vanderburg C, Rizzu P, Cooper AA, Heutink P, Beach TG, Mueller F, Mattick JS, Scherzer CR. BRAINCODE: How does the Human Genome Function in Specific Brain Neurons? *The American Society of Human Genetics (ASHG)*, Baltimore, 2015.

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### **PART V: NARRATIVE REPORT**

My goal is to understand how the human genome functions in brain of healthy and Parkinson by developing and applying computational methods to integrate and interpret -omics data. I feel extremely lucky to be a young scientist in this booming era of biomedical research –both for brain research and for computational biology. The rapid development of next-generation sequencing (NGS) techniques has dramatically decreased the time and cost of sequencing a personal genome; it took more than a decade and over \$3 billion ten years ago and just in one week and under \$3000 today. A tremendous volume of data is constantly being generated, covering various aspects of biomedicine, such as genomics, transcriptomics, epigenomics, proteomics, and metabolomics. This deluge of data is challenging both in the way we analyze it and the way we interpret it. This becomes particularly challenging and exciting when it comes to human brain and brain diseases. Human brain is our most complex organ, conducting various advanced functions with more than 86 billion neurons and trillions of connections. How is a single copy of genome wired into neurons with different functions? What happened to the Parkinson's brain, in DNA, RNA, and protein level? And how? Can we do something to predict and/or prevent it? Answering these questions becomes possible until nowadays when sequencing and computing techniques meet at their best-ever time. This is exactly why I plan to tackle in my research as a computational biologist specialized in human brain research.

In my current appointment, I spent most (80%) of my time in academic research in the Neurogenomics Laboratory; for most of that time I have leaded at least two projects. The remainder of my time is divided between administrative duties as the bioinformatics team lead (5%) and training the fellows as an Instructor (15%).

My current research focuses mainly on the neurodegenerative diseases, including Parkinson's disease (PD) and Huntington's disease (HD), to delineate their genetic architecture using various NGS techniques and integrative bioinformatics methods. With Dr. Clemens Scherzer at BWH, I have started two projects -- one is to create a national RNA biobank resource and develop digital biofluid markers useful for tracking HD progression (funded by NIH); the other is to provide a high-definition view of transcription activity of brain neurons via ultra-deep sequencing of the transcriptome of healthy controls and PD patients. We are wrapping up a manuscript for the latter project.

My publication record reflects my growing national and international standing in the field. I have 21 publications in top peer-reviewed journals including *Nature*, *Cell*, *Molecular Cell*, *Genome Research*, *Genome Biology*, *Nucleic Acids Research*, with more than 5,400 citations so far. Briefly, I've discovered the first set of enhancers (which are usually found in non protein-coding regions) in protein-coding exons (Dong et al. Nucleic Acids Research 2009). I've also served as an active member to the ENCODE Project (ENCyclopedia Of DNA Elements), where my co-author work ("An integrated encyclopedia of DNA elements in the human genome", Nature, 2012; 757 citations in 2013 alone) was recognized as "Top 10 Breakthroughs of the Year 2012" in Science. I've developed and made publicly available three web-based tools useful for studying gene regulation, Synorth (Dong et al. Genome Biology 2009), Translog (Dong et al. BMC Bioinformatics 2010), and Factorbook.org (Wang et al. Genome Research 2012). I've also designed sophisticated statistical models to quantify the association between gene expression and chromatin features in various cellular contexts, by integrating various genomic, epigenomics, and transcriptomics data generated from NGS techniques such as ChIP-Seq, DNase-Seq, RNA-Seq, CAGE etc. (Dong et al. Genome Biology 2012; Dong et al. Epigenomics 2013).

I love teaching and communicating with people. I have served as mentor and co-advisor for junior PhD students since my last year of PhD study. I also now co-supervise the bioinformatics visiting scientists/students in Dr. Scherzer's lab, and have trained/supervised eight (8) students since I joined in Dr. Scherzer's lab in 2013. Moreover, I like to share knowledge to the community; the bioinformatics blog I founded (http://onetipperday.sterding.com) has received ~200 visits per day and >520,000 visits since its opening in 2008. In 2007, I organized a bioinformatics workshop in Norway with over 50 national participants. It was the introduction of the Ensembl (http://www.ensembl.org) outreach to Norway and was considered extremely useful by local researchers. I am also enthusiastic in supporting educational activities in my local community, for example, by teaching hands-on science experiments in local elementary schools.

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In summary, with a demonstrated record of accomplished and productive research in the area of genomics, I believe that my expertise and experience in bioinformatics have prepared me to the new role as an Assistant Professor in neurogenomics.

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