

**Chaolin Zhang, Ph.D.**

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**Date of Preparation:** August 27, 2018

**Academic Appointments:**

- 11/2012- present      Assistant Professor (in Systems Biology), Department of Systems Biology,  
Department of Biochemistry and Molecular Biology, Columbia University  
College of Physicians and Surgeons, New York, NY.
- 07/2011-10/2012      Research Assistant Professor, The Rockefeller University, New York, NY.

**Education:**

- 08/2004-07/2008      Ph.D., Cold Spring Harbor Laboratory & Department of Biomedical Engineering,  
SUNY at Stony Brook, New York, NY.  
Mentors: Michael Q. Zhang and Adrian R. Krainer.  
Thesis: Genome evolution and signals for fidelity and regulation of pre-mRNA  
splicing.
- 09/1998-07/2002      B.E., Department of Automation (with honor), Tsinghua University, Beijing,  
China.

**Postdoctoral Training:**

- 07/2008-07/2011      Laboratory of Molecular Neuro-Oncology, Howard Hughes Medical Institute,  
The Rockefeller University, New York, NY.  
Mentor: Robert B. Darnell.

**Other Training:**

- 2013      Cold Spring Harbor Laboratory Summer Course: Mouse Development, Stem  
Cells & Cancer.
- 2012      Cold Spring Harbor Laboratory Summer Course: Advanced Techniques in  
Molecular Neuroscience.
- 2011      Short Course: Statistical Learning and Data Mining (taught by Hastie &  
Tibshirani).
- 2006      Workshop: Sequence Analysis Toward System Biology, Institute for Pure &  
Applied Mathematics (IPAM), UCLA.

## **Honors and Awards:**

- 2011 NIH Earl Stadtman Scholar, semi-finalist.
- 2011 NIH (NIGMS) K99/R00 Pathway to Independence Award.
- 2010 Best Poster Award, Gordon Research Conference: Biology of Post-transcriptional Gene Regulation.
- 2006 Sigma Xi Award.
- 2002 Best Proposal, Seed Fund for Extracurricular Scientific Activities, Tsinghua University.
- 2002 Rank 6th, SCILAB Programming Contest (national wide).
- 2001 Tsinghua University Outstanding Student Scholarship (General Electric).
- 2000 Tsinghua Outstanding Student Scholarship.

## **Professional Organizations and Societies:**

### Memberships and Positions

- 2015-present Member, AAAS.
- 2006-present Member, RNA Society.
- 2010-2011 Associate Faculty Member, Faculty 1000.

### Editorial

Associate Editor, *Quantitative Biology* (Springer), special issue on RNA Processing and Regulation.

### Scientific Advisory Board

Stoke Therapeutics, Bedford, MA (<http://www.stoketherapeutics.com>).

### Consultative

- Panelist, PI Crash Course - Skills for Future or New Lab Leaders, Columbia Mailman School of Public Health (06/2018)
- Ad hoc reviewer, Czech Science Foundation grant (08/2018).
- Ad hoc reviewer, NIH Molecular Neurogenetics (MNG) Study Section (10/2016, 02/2017, 02/2018).
- Ad hoc reviewer, NIH Genomics, Computational Biology and Technology (GCAT) Study Section (02/2016).
- Ad hoc reviewer, Columbia University RISE award competition (Research Initiative in Science and Engineering) (2015, 2018).

Ad hoc reviewer, Columbia University internal competition for Edward Mallinckrodt, Jr. Foundation Research Grants (2016).

Ad hoc reviewer, MRF Competition for Research Grants (2014).

Ad hoc reviewer, Columbia University internal competition for Revson Postdoctoral Fellowship (2018).

K99 Panelist, NIH Career Development & Training Award Workshops. Tri-Institutional Collaboration Network (2011).

#### Ad-hoc Journal Reviewer

Science, Cell, PNAS, Neuron, Molecular Cell, Cell Stem Cell, Nature Biotechnology, Nature Methods, Nature Communications, Genes and Development, Genome Research, PLoS Biology, PLoS Genetics, eLife, Cell Reports, Cell Systems, Genome Biology, Nucleic Acids Research, RNA, Bioinformatics, BMC Bioinformatics, BMC Genomics, Scientific Reports, WIRES RNA, Quantitative Biology, Anal of Applied Statistics, JoVE, Methods (Elsevier), PLoS One.

#### **Department and University Committees:**

2012-present Member, Center for Motor Neuron Biology and Disease, Columbia University College of Physicians and Surgeons, New York, NY.

2012-present Member, Cancer Regulatory Networks Group, Herbert Irving Comprehensive Cancer Center, Columbia University College of Physicians and Surgeons, New York, NY.

2016-present Committee Member, Data Science Institute, Health Analytics.

2015-present Scientific and Clinical Steering Committee Member, New York Genome Center.

2011-present Faculty Member, Columbia Graduate Program in Cellular, Molecular and Biomedical Studies.

2015-present Faculty Member, Columbia Graduate Program in Neurobiology and Behavior.

2017-present Department of Systems Biology, Ph.D. Admission Committee.

2012-present Interviewer of Ph.D. or M.D./Ph.D. applicants.

#### **Publications:**

Google Scholar Citation: 5755, h-index: 29, i10-index: 31 (as of July 27, 2018).

(\* co-first authors; † co-corresponding authors)

#### Preprints

Zagore, L.L., Sweet, T.J., Hannigan, M.M., Weyn-Vanhentenryck, S.M., **Zhang, C.**, Licatalosi, D.D. 2018. Dazl maintains proliferating germ cells through a network of polyA-proximal mRNA interactions. *bioRxiv*. DOI: <https://doi.org/10.1101/273292>. (preprint; Under revision in *Cell Reports*).

## Original, Peer Reviewed Articles

1. Yuan, Y., Xie, S., Darnell, J. C., Darnell, A. J., Saito, Y., Phatnani, H., Murphy, E. A., **Zhang, C.**, Maniatis, T. & Darnell, R. B. 2018. Cell type-specific CLIP reveals that NOVA regulates cytoskeleton interactions in motoneurons. *Genome Biol.* **19**:117.
2. Ustianenko, D.\*, Chiu, H.-S.\* , Treiber, T.\* , Weyn-Vanhentenryck, S.M., Treiber, N., Meister, G., Sumazin, P. †, **Zhang, C.** † 2018. LIN28 selectively modulates a subclass of let-7 microRNAs. *Mol. Cell.* **71**: 271-283.e5.  
  
-cover story, July 19 issue.
3. Weyn-Vanhentenryck, S.M.\*, Feng, H.\*, Ustianenko, D., Duffié, R., Yan, Q., Jacko, M., Martinez, J.C., Goodwin, M., Zhang, X., Hengst, U., Lomvardas, S., Swanson, M.S., **Zhang, C.** 2018. Precise temporal regulation of alternative splicing during neural development. *Nat Commun*, **9**:2189.
4. Luo, W., **Zhang, C.**, Jiang, Y., Brouwer, C.R. 2018. Systematic reconstruction of autism biology from massive genetic mutation profiles. *Sci Adv.* **4**: e1701799.
5. Bao, X., Guo, X., Yin, M., Tariq, M., Lai, Y., Kanwal, S., Zhou, J., Li, N., Lv, Y., Pulido-Quetglas, C., Wang, X., Ji, L., Khan, M. J., Zhu, X., Luo, Z., Shao, C., Lim, D.-H., Liu, X., Li, N., Wang, W., He, M., Liu, Y.-L., Ward, C., Wang, T., Zhang, G., Wang, D., Yang, J., Chen, Y., **Zhang, C.**, Jauch, R., Yang, Y.-G., Wang, Y., Qin, B., Anko, M.-L., Hutchins, A. P., Sun, H., Wang, H., Fu, X.-D., Zhang, B. & Esteban, M. A. 2018. Capturing the interactome of newly transcribed RNA. *Nat Meth*, **15**:213-220.
6. Jacko, M., Weyn-Vanhentenryck, S.M., Smerdon, J.W., Yan, R., Feng, H., Williams, D.J., Pai, J., Xu, K., Wichterle, H. †, **Zhang, C.** † 2018. Rbfox splicing factors promote neuronal maturation and axon initial segment assembly. *Neuron*, **97**: 853-868.e6.  
  
-Issue highlight.  
-Press release: “Research Unveils a Developmental Splicing Program Controlling Neuronal Maturation and Excitability”. CUMC News Room.  
<http://newsroom.cumc.columbia.edu/blog/2018/02/08/new-insights-neurons-become-mature-excitables/>.
7. **Zhang, C.**\*, †, Shen, Y.\* , † 2017. A cell type-specific expression signature predicts haploinsufficient autism-susceptibility genes. *Hum Mut.* **38**: 204-215.  
  
-News release: “Third-party gene scores added to SFARI Gene”. SFARI.  
<https://www.sfari.org/2017/12/14/third-party-gene-scores-added-to-sfari-gene/>.
8. Shah, A., Qian, Y., Weyn-Vanhentenryck, S.M., **Zhang, C.** 2017. CLIP Tool Kit (CTK): a flexible and robust pipeline to analyze CLIP sequencing data. *Bioinformatics*, **33**:566-567. DOI: 10.1093/bioinformatics/btw653.
9. Goodwin, M., Mohan, A. Batra, R., Lee, K.-Y., Charizanis, K., Francisco Jose Fernandez-Gomez, F.J., Eddarkaoui, S., Sergeant, N., Buee, L., Kimura, T., Clark, H.B., Dalton, J., Takamura, K., Weyn-Vanhentenryck, S.M., **Zhang, C.**, Reid, T., Ranum, L.P.W., Day, J.W., Swanson, M.S.

2015. MBNL sequestration by toxic RNAs and RNA misprocessing in the myotonic dystrophy brain. *Cell Rep.* **12**:1159-1168.
10. Feng, H., Zhang, X., **Zhang, C.**, 2015. mRIN for direct assessment of genome-wide and gene-specific mRNA integrity from large-scale RNA-sequencing data. *Nat Comm.* **6**:7816.  
 -Research highlights, “How good are those RNA-seq data?”, *Nat Meth*, 12:910 (2015).
  11. Yan, Q.\* , Weyn-Vanhentenrycka, S.M.\* ,Wu, J., Sloan, S.A., Zhang, Y., Chen, K., Wu, J.-Q., Barres, B.A.† , **Zhang, C.**† 2015. Systematic discovery of regulated and conserved alternative exons in the mammalian brain reveals NMD modulating chromatin regulators. *Proc. Nat. Acad. Sci. USA.* **112**:3445-3450.
  12. Batra, R., Charizanis, K., Manchanda, M., Mohan, A., Li, M., Finn, D.J., Goodwin, **Zhang, C.**, Sobczak, K., Thornton, C.A., Swanson, M.S. 2014. Loss of MBNL function leads to disruption of developmentally regulated alternative polyadenylation in RNA-mediated disease. *Mol Cell.* **56**: 311-322.
  13. Zhang, Y., Chen, K., Sloan, S., Bennett, M.L., Scholze, A.R., O’Keeffe, S., Phatnani, H.P., Guarnieri, P., Caneda, C., Ruderisch, N., Deng, S., Liddelw, S.A., **Zhang, C.**, Daneman, R., Maniatis, T., Barres, B.A., Wu, J.-Q. 2014. An RNA-sequencing transcriptome and splicing database of glia, neurons, and vascular cells of the cerebral cortex. *J Neurosci.* **34**:11929-11947.
  14. Weyn-Vanhentenryck, S.M.\* , Mele, A.\* , Yan, Q.\* , Sun, S., Farny, N., Zhang, Z., Xue, C., Herre, M., Silver, P.A., Zhang, M.Q., Krainer, A.R., Darnell, R.B. †, **Zhang, C.** † 2014. HITS-CLIP and integrative modeling define the Rbfox splicing-regulatory network linked to brain development and autism. *Cell Rep.* **6**:1139-1152.
  15. Moore, M.\* , **Zhang, C.**\* , Gantman, E.C., Mele, A., Darnell, J.C., Darnell, R.B. 2014. Mapping Argonaute and conventional RNA-binding protein interactions with RNA at single-nucleotide resolution using HITS-CLIP and CIMS analysis. *Nat Protocols.* **9**:263-293.
  16. Poulos, M.G., Batra, R., Li, M., Yuan, Y., **Zhang, C.**, Darnell, R.B., Swanson, M.S. 2013. Progressive impairment of muscle regeneration in Muscleblind-like 3 isoform knockout mice. *Hum Mol Genet.* **22**:3547-3558.
  17. **Zhang, C.** †, Lee, K.-Y., Swanson, M.S., Darnell, R.B. † 2013. Prediction of clustered RNA-binding protein motif sites in the mammalian genome. *Nucleic Acids Res.* **41**:6793-6807.
  18. Wu, J., Anczukow, O., Krainer, A.R., Zhang, M.Q. †, **Zhang, C.** †, 2013. OLego: Fast and sensitive mapping of spliced mRNA-Seq reads using small seeds. *Nucleic Acids Res.* **41**:5149-5163.
  19. Eom, T., **Zhang, C.**, Wang, H., Lay, K., Fak, J., Noebels, J.L., Darnell, R.B. 2012. NOVA-dependent regulation of cryptic NMD exons controls synaptic protein levels after seizure. *eLife*, **2**:e00178.
  20. Ince-Dunn, G., Okano, H.J., Jensen, K.B., Park, W.Y., Zhong, R., Ule, J., Mele, A., Fak, J.J., Yang, C., **Zhang, C.**, Yoo, J., Herre, M., Okano, H., Noebels, J.L., Darnell, R.B., 2012. Neuronal Elav-

like (Hu) proteins regulate RNA splicing and abundance to control glutamate levels and neuronal excitability. *Neuron*, **75**:1067-1080.

21. Zhang, B., Arun, G., Mao, Y.S., Lazar, Z., Hung, G., Bhattacharjee, G., Xiao, X., Booth, C.J., Wu, J., **Zhang, C.**, Spector, D.L., 2012. The lncRNA Malat1 is dispensable for mouse development but its transcription plays a cis-regulatory role in the adult. *Cell Reports*, **2**:111-123.
  22. Charizanis, K., Lee, K.-Y., Batra, R., Goodwin, M., **Zhang, C.**, Yuan, Y., Shuie, L., Cline, M., Scotti, M.M., Xia, G., Kumar, A., Ashizawa, T., Clark, H.B., Kimura, T., Takahashi, M.P., Fujimura, H., Jinnai, K., Yoshikawa, H., Pereira, M.G., Gourdon, G., Sakai, N., Nishino, S., Foster, T.C., Ares, M. Jr, Darnell, R.B., Swanson, M.S., 2012. Muscleblind-like 2 mediated alternative splicing in the developing brain and dysregulation in myotonic dystrophy. *Neuron*, **75**:437-450.
  23. Licatalosi, D.D., Yano, M., Fak, J.J., Mele, A., Grabinski, S.E., **Zhang, C.**, Darnell, R.B., 2012. Ptbp2 represses adult-specific splicing to regulate the generation of neuronal precursors in the embryonic brain. *Genes Dev.*, **26**:1626-1642.
  24. Rajan, P., Dalglish, C., Carling, P., Buist, T., **Zhang, C.**, Grellscheid, S., Armstrong, K., Stockley, J., Simillion, C., Gaughan, L., Kalna, G., Zhang, M.Q., Robson, C., Leung, H., Elliott, D. 2011. Identification of novel androgen-regulated pathways and mRNA isoforms through genome-wide exon-specific profiling of the LNCaP transcriptome. *PLoS One*, **6**: e29088.
  25. Watts, J.A., **Zhang, C.**, Klein-Szanto, A.J., Kormish, J.D., Fu, J., Zhang, M.Q., Zaret, K.S. 2011. Study of FoxA pioneer factor at silent genes reveals Rfx-repressed enhancer at Cdx2 and a potential indicator of esophageal adenocarcinoma development. *PLoS Genet*, **7**: e1002277.
  26. Darnell, J.C., Van Driesche, S.J., **Zhang, C.**, Hung, K.Y.S., Mele, A., Fraser, C.E., Stone, E.F., Chen, C., Fak, J.J., Chi, S.W., Licatalosi, D.D., Richter, J.D., Darnell, R.B., 2011. FMRP stalls ribosomal translocation on mRNAs linked to synaptic function and autism. *Cell*, **146**:247-261.
  27. **Zhang, C.** †, Darnell, R.B. † 2011. Mapping in vivo protein-RNA interactions at single-nucleotide resolution from HITS-CLIP data. *Nat. Biotech.* **29**:607-614.
  28. **Zhang, C.** †, Frias, M.A., Mele, A., Ruggiu, M., Eom, T., Marney, C.B., Wang, H., Licatalosi, D.D., Fak, J.J., Darnell, R.B. † 2010. Integrative modeling defines the Nova splicing-regulatory network and its combinatorial controls. *Science*. **329**: 439-443.
- Editor's choice, Pickersgill, H. 2010. Making the Final Cut. *Sci. Signal.* **3**:ec234;
- Nominated by leading researchers as one of the 33 papers that represent breakthroughs in computational biology in 2010. Mak H.C., 2011. Trends in computational biology-2010. *Nat Biotech.* **29**, doi:10.1038/nbt.1747.
29. Chicas, A., Wang, X., **Zhang, C.**, McCurrach, M., Zhao Z., Mert, O., Dickins, R., Narita, M., Zhang, M.Q., Lowe, S.W. 2010. Dissecting the unique role of the retinoblastoma tumor suppressor during cellular senescence. *Cancer Cell*, **17**: 376-387.
- Comment in Burd, C.E., Sharpless, N.E. 2010. What's so special about RB. *Cancer Cell*. **17**:313-314.

30. Castle, J.C., **Zhang, C.**, Shah, J.K., Kulkarni, A.V., Kalsotra, A., Cooper, T.A., Johnson, J.M. 2008. Expression of 24,426 human alternative splicing events and predicted cis regulation in 48 tissues and cell lines. *Nat. Genet.* **40**:1416-1425.
31. **Zhang, C.\***, Zhang, Z.\*, Castle, J., Sun, S., Johnson, J., Krainer, A.R., Zhang, M.Q. 2008. Defining the regulatory network of the tissue-specific splicing factors Fox-1 and Fox-2. *Genes Dev.* **22**:2550-2563.
32. **Zhang, C.**, Li, W.-H., Krainer, A.R., Zhang, M.Q. 2008. RNA landscape of evolution for optimal exon and intron discrimination. *Proc. Nat. Acad. Sci. USA.* **105**:5797-5802.
33. **Zhang, C.**, Hasting, M.L., Krainer, A.R., Zhang, M.Q. 2007. Dual-specificity splice sites function alternatively as 5' and 3' splice sites. *Proc. Nat. Acad. Sci. USA* **104**: 15028-15033.
34. **Zhang, C.**, Krainer, A.R., and Zhang, M.Q. 2007. Evolutionary impact of limited splicing fidelity in mammalian genes. *Trends Genet.* **23**(10): 484-488.
35. **Zhang, C.**, Zhang, X., Zhang, M.Q., Li, Y. 2007. Neighbor number, valley seeking and clustering. *Pattern Recogn. Lett.* **28**:173-180.
36. Smith, P.J., **Zhang, C.**, Wang, J., Chew, S.L., Zhang, M.Q., Krainer, A.R. 2006. An increased specificity score matrix for the prediction of SF2/ASF-specific exonic splicing enhancers. *Hum. Mol. Genet.* **15**: 2490-2508.
37. **Zhang, C.**, Xuan, Z., Otto, S., Hover, J.R., McCorkle, S.R., Mandel, G., Zhang, M.Q. 2006. A clustering property of highly-degenerate transcription factor binding sites in the mammalian genome. *Nucleic Acids Res.* **34**: 2238-2246.
38. **Zhang, C.**, Li, H.-R., Fan, J.-B., Wang-Rodriguez, J., Downs, T., Fu, X.-D., Zhang, M.Q. 2006. Profiling alternatively spliced mRNA isoforms for prostate cancer classification. *BMC Bioinfo.* **7**: 202. (highly accessed paper)
39. **Zhang, C.\***, Lu, X.\*, Zhang, X. 2006. Significance of gene ranking for classification of microarray Samples. *IEEE ACM T Comput Biol Bioinfo.* **3**(3): 312-320.

## Reviews

40. Ustianenko, D., Weyn-Vanhentenryck, S.M., **Zhang, C.** 2017. Microexons: discovery, regulation, and function. *WIREs RNA.* e1418. doi: 10.1002/wrna.1418 (review).

## Book Chapters

41. **Weyn-Vanhentenryck, S.M., Zhang, C.** 2016. mCards: genome-wide prediction of clustered sequence motifs as binding sites for RNA-binding proteins. *Methods Mol Biol.* 1421:215-226.
42. **Zhang, C.**, Zhang, M.Q. 2012. Identification of Splicing Factor Target Genes by High-Throughput Sequencing. Chapter 51 in *Alternative pre-mRNA Splicing: Theory and Protocols.* (S. Stamm, C.W. J. Smith, R. Lührmann, ed) Wiley-VCH Verlag GmbH & Co.

43. **Zhang, C.**, Zhang, M.Q. 2008. Biomedical literature mining. Chapter 10 in *Bioinformatics: A Concept-Based Introduction*. (Mathura, V. & Kanguene, P., ed) Springer. 115-127.
44. **Zhang, C.**, Zhao, X., Zhang, M.Q. 2006. Functional *in silico* analysis of gene regulatory polymorphism. Chapter 12 in *Bioinformatics for Geneticists 2nd Edition - A Bioinformatics primer for the analysis of genetic data*. 2nd edition (M.R. Barnes, ed) John Wiley & Sons, LTD.

**Invited Lectures:**

- 03/2019. Department of Pharmacology, Northwestern University, Chicago, IL.
- 02/2019. UCLA Bioinformatics Seminar Series. UCLA, Los Angeles, CA.
- 11/2018. Institute for Basic Science (IBS) Conference on RNA Biology, Seoul, Korea.
- 10/2018. Cold Spring Harbor Asia Conference on RNA Biology. Suzhou, China.
- 10/2018. Institute for Computational Biomedicine, Weill Cornell Medicine, New York, NY.
- 09/2018. Emory Graduate Program in Genetics and Molecular Biology (GMB) & Department of Pharmacology Joint Seminar, Emory University, Atlanta, GA.
- 07/2018. ISMB RNA-SIG Meeting. Chicago, IL.
- 04/2018. New York Genome Center Five Points Seminar Series. New York, NY.
- 03/2018. American Society for Neurochemistry Symposium. Irvine, CA.
- 08/2017. Otto Warburg Summer School Symposium. Shanghai, China.
- 07/2017. Tsinghua University Biology (THUBio) Reunion, New York, NY.
- 07/2016. Bioinformatics Division, TNLIST, Tsinghua University, Beijing, China.
- 04/2016. Department of Biological Sciences Seminar Series, St John's University. Queens, NY.
- 02/2016. Penn State University Neuroscience Seminar. University Park, PA.
- 02/2016. Amgen Inc. Boston, MA.
- 01/2016. Robert H Lurie Comprehensive Cancer Center, Northwestern University. Chicago, IL.
- 09/2015. Center for RNA Biology, Ohio State University. Columbus, OH.
- 06/2014. International Congress of Endocrinology & the Endocrine Society (ICE/Endo) Annual Meeting. Chicago, IL.
- 10/2012. Bioinformatics Division, TNLIST, Tsinghua University, Beijing, China.
- 10/2012. Tsinghua Symposium on Genomics and Epigenomics. Beijing. China.



- 10/2012. CSHA meeting on RNA Biology. Suzhou. China.
- 09/2012. CAS-MPG Partner Institute for Computational Biology. Shanghai, China.
- 11/2011. ASN Annual meeting Advances in Research Conference: MicroRNA. Philadelphia. PA.
- 10/2011. Rockefeller Bioinformatics/Biostatistics Collaborative Group meeting. Rockefeller University, New York NY.
- 07/2010. FASEB Posttranscriptional Control of Gene Expression: Mechanisms of mRNA Decay. Carefree, AZ.
- 11/2009. New York Illumina Genome Analyzer User Group Meeting. New York, NY.

### **Teaching Experience and Responsibilities:**

#### Course Teaching

- 2015-present Co-Instructor, Graduate Course “Deep Sequencing” (G4017).
- 2016-present Lecturer, Graduate Course “Biochemistry, Cell and Molecular Biology I” (G6300).

#### Other Teaching Activities

- 2018 Invited Speaker, Current Topics in Molecular Genetics (IBS 515), Graduate Program in Genetics and Molecular Biology (GMB) at Emory University
- 2017 Invited Speaker, Otto Warburg Summer School on RNA Biology: Diverse Functions Revealed by Global Analysis. Shanghai, China.
- 2017 Speaker, Department of Systems Biology Faculty, Ph.D. Student Recruit.
- 2016 Speaker, Columbia University Graduate Program in Neurobiology and Behavior Bootcamp.
- 2016-present Speaker, Department of Systems Biology Faculty Research Seminar Series.
- 2013, 2014, 2016 Speaker, Department of Systems Biology Retreat.
- 2013 Speaker, Department of Biochemistry and Molecular Biophysics Retreat.
- 2013 Invited Speaker, RNA-seq in Biomedical Research Workshop, Columbia University Genome Center.
- 2007 Invited Speaker, New York Illumina Genome Analyzer User Group Meeting.

### **Advising and Mentorship:**

#### Post Doctoral Research Scientists

- 2018-present Brittany L Phillips, Ph.D., Emory University.
- 2017-present Suying Bao, Ph.D., University of Hong Kong.  
 - Columbia Precision Medicine Research Fellowship (2018-2020)
- 2016-present Huijuan Feng, Ph.D., Tsinghua University, Beijing.
- 2015-present Dmytro Ustianenko, Ph.D., Masaryk University, Brno, Czech Republic.
- 2013-2015 Qinghong Yan, Ph.D., Stony Brook University.  
 - Currently Senior Scientist at Amgen.
- 2013-2014 Yong Zhang, Ph.D., The Chinese Academy of Science.

### Graduate Students

- 2018-present Daniel Moakley, Integrated Program in CMBS.
- 2018-present Yocelyn Recinos, Integrated Program in CMBS.
- 2013-2017 Sebastien Weyn, Integrated Program in CMBS, Columbia University.  
 - Recipient of the 2018 Titus M Coan Prize for Excellence in Research  
 - Currently Bioinformatics Scientist at Stoke Therapeutics.
- 2013-2017 Martin Jacko, Pathobiology & Molecular Medicine (joint with Hynek Wichterle).  
 - Currently Postdoc at Stanford University.
- 2015 Huijuan Feng, Visiting Ph.D. student from Tsinghua University, Beijing.  
 - Winner of Outstanding Thesis Award at Tsinghua University and National Scholarship based on work in the lab.  
 - Currently Postdoctoral Research Scientist in the lab.
- 2012-2013 Jie Wu, Visiting Ph.D. student from CSHL.  
 - Joined MIT as a Bioinformatics Scientist upon graduation.  
 - Currently Senior Research Scientist at Philips.

### Undergraduate and Master Students

- 2017-present Lekha Yesantharao, Columbia College, Undergraduate Research Student.
- 2017-present Justin Wong, Columbia College, Undergraduate Research Student.  
 - Simons scholarship for undergraduate summer research (2017).
- 2017 Helene Lovett, Harvard University, Summer Undergraduate Research Student.  
 Amgen Scholarship (2017).
- 2015-2017 Ankeeta Shah, Barnard College, Undergraduate Research Student.  
 - Amgen Scholarship (2016).  
 - Goldwater Scholarship (2016).  
 - Currently Graduate Student, University of Chicago.
- 2015-2016 Kevin Huynh, M.S. Technician.

- Currently MD Program, UCSF.
- 2016 Jiaye Li, Master Student, Biotechnology Program, Columbia University. Master thesis research.
- 2016 Jingxian You, Fudan University (Shanghai, China), Summer Undergraduate Research Student.
  - Currently Master Student, Imperial College London.
- 2015-2017 Jonah Lee, Columbia College, Undergraduate Research Student.
- 2013-2016 Joy Pai, Columbia College, Undergraduate Research Student.
  - Amgen Scholarship.
  - Currently Bioinformatician, Rockefeller University.
  - Will join Stanford University for graduate study.
- 2015 Kernyu Park, Columbia College, Undergraduate Research Student.
  - Currently Master student, Biomedical Informatics Program, Columbia University.