# Lingfei Wang, Ph.D.

Department of Genomics and Computational Biology

University of Massachusetts Chan Medical School

368 Plantation Street, AS4-1063

Worcester, MA 01605-2324, USA

## Education

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| Ph.D., Physics, Lancaster University, Lancaster, UKThesis Title: Spectator fields and their imprints on the Cosmic Microwave BackgroundAdvisor: Anupam Mazumdar | 2016 |
| B.Sc., Physics, Nanjing University, Nanjing, China | 2009 |

## Postdoctoral Training

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| Postdoctoral Research Fellow, Department of Pathology and Center for Cancer Research, Massachusetts General Hospital, Harvard Medical School, Boston, MA, USA | 08/2020-10/2023 |
| Postdoctoral Research Associate, Broad Institute of MIT and Harvard, Cambridge, MA, USA | 04/2018-04/2020 |
| Postdoctoral Research Fellow, The Roslin Institute, The University of Edinburgh, Edinburgh, UK | 09/2015-04/2018 |

## Academic Appointments

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| Assistant Professor, Department of Genomics and Computational Biology, UMass Chan Medical School, Worcester, MA, USA | 10/2023-present |
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## Honors and Awards

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| Career Development Grants for Late-Career Postdoctoral Fellows (Massachusetts General Hospital) | 2023 |
| Travel Grant (Graduate College, Lancaster University) | 2013 |
| Best Ph.D. Student (Physics Department, Lancaster University) | 2013 |
| Travel Grant (Strings, Cosmology and Gravity Student Conference) | 2012 |

## Educational Activities

### Teaching Activities in Programs and Courses

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| --- | --- |
| Systems and Computational Biology (BBS764), Lecturer, 30 students, Gene Regulation III (Lecture), 1.5 teaching hours, Morningside Graduate School of Biomedical Sciences, University of Massachusetts Chan Medical School | 2025 |
| Systems and Computational Biology (BBS764), Lecturer, 45 students, Gene Regulation (Workshop), 1.5 teaching hours, Morningside Graduate School of Biomedical Sciences, University of Massachusetts Chan Medical School | 2025 |
| Mechanics, Teaching Assistant, 80 students, 4 marking hours/week \* 20 weeks, Department of Physics, Nanjing University | 2014 |
| Electromagnetism, Teaching Assistant, 40 students, 6 marking hours/week \* 10 weeks, Department of Physics, Lancaster University | 2013 |
| Mathematica, Teaching Assistant, 40 students, 6 marking hours/week \* 10 weeks, Department of Physics, Lancaster University | 2012 |
| Electromagnetism, Teaching Assistant, 40 students, 6 marking hours/week \* 10 weeks, Department of Physics, Lancaster University | 2012 |

### Research Education

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| Faculty, Systems, Computational, and Quantitative Biology, Morningside Graduate School of Biomedical Sciences, UMass Chan Medical School | 2024–present |
| Faculty, Biophysical, Chemical, and Computational Biology, Morningside Graduate School of Biomedical Sciences, UMass Chan Medical School | 2023–present |
| Faculty, Bioinformatics & Computational Biology, Morningside Graduate School of Biomedical Sciences, UMass Chan Medical School | 2023–2024 |

### External Continuing Education Activities

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| Teaching in a Quantitative Classroom Workshop for Postdocs (3-part class), Harvard University, Boston, MA, USA | 10/2022 |
| Survival Skills for Teaching, Lancaster University, Lancaster, UK | 11/2011 |

### Advising and Mentoring

### Students

|  |  |
| --- | --- |
| Matthew Funk, UMass Chan Medical School, Ph.D. student | 2025-present |
| Matthew Funk, UMass Chan Medical School, rotation Ph.D. student | 2024 |
| Zixuan Ye, UMass Chan Medical School, rotation Ph.D. student | 2024 |
| Guanlan Dong, Massachusetts General Hospital, Harvard Medical School, rotation Ph.D. student | 2020-2021 |
| Deepti Vipin, The University of Edinburgh, Master student | 2018 |
| Sean Bankier, The University of Edinburgh, Ph.D. student | 2017-2018 |

### Predoctoral Trainees

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| --- | --- |
| Yuhe Wang, UMass Chan Medical School, Research Associate | 2024-2025 |
| Jiaming Huang, UMass Chan Medical School, undergraduate intern | 2024 |
| Michael Hu, Massachusetts General Hospital, Harvard Medical School, high school intern | 2020-2021 |

### Postdoctoral Trainees

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| Nikolaos Trasanidis, Massachusetts General Hospital, Harvard Medical School, visiting Ph.D. student and postdoctoral researcher | 2020-2022 |
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## Investigation

## Grants

### Current

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| R35GM160536 Principal InvestigatorCausal inference of common and personalized single-cell gene regulatory networksCosts (total/direct/indirect): 2303125/1375000/928125 | 2025-2030 |
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## Scholarship

### Peer-reviewed publications

\*: equal contributions.

§: corresponding author(s).

‡: no corresponding author.

†: alphabetical author ordering.

1. **Lingfei Wang**\*, Nikolaos Trasanidis\*, Ting Wu, Guanlan Dong, Michael Hu, Daniel E. Bauer, and Luca Pinello§. Dictys: dynamic gene regulatory network dissects developmental continuum with single-cell multiomics. Nature Methods 20(9), 1368--1378 (2023).

2. Sean Bankier§, **Lingfei Wang**, Andrew Crawford, Ruth A. Morgan, Arno Ruusalepp, Ruth Andrew, Johan L. M. Björkegren, Brian R. Walker, and Tom Michoel. Plasma cortisol-linked gene networks in hepatic and adipose tissues implicate corticosteroid-binding globulin in modulating tissue glucocorticoid action and cardiovascular risk. Frontiers in Endocrinology 14, (2023).

3. **Lingfei Wang**\*, Qian Zhang\*, Qian Qin\*, Nikolaos Trasanidis\*, Michael Vinyard\*, Huidong Chen\*, and Luca Pinello§. Current progress and potential opportunities to infer single-cell developmental trajectory and cell fate. Current Opinion in Systems Biology, (2021).

4. **Lingfei Wang**§. Single-cell normalization and association testing unifying CRISPR screen and gene co-expression analyses with Normalisr. Nature Communications 12(1), 6395 (2021).

5. Kwontae You, **Lingfei Wang**, Chih-Hung Chou, Kai Liu, Toru Nakata, Alok Jaiswal, Junmei Yao, Ariel Lefkovith, Abdifatah Omar, Jacqueline G. Perrigoue, Jennifer E. Towne, Aviv Regev§, Daniel B. Graham§, and Ramnik J. Xavier§. QRICH1 dictates the outcome of ER stress through transcriptional control of proteostasis. Science 371(6524), (2021).

6. Kimberly L. Carey\*, Geraldine L. C. Paulus\*, **Lingfei Wang**, Dale R. Balce, Jessica W. Luo, Phil Bergman, Ianina C. Ferder, Lingjia Kong, Nicole Renaud, Shantanu Singh, Maria Kost-Alimova, Beat Nyfeler, Kara G. Lassen, Herbert W. Virgin, and Ramnik J. Xavier§. TFEB Transcriptional Responses Reveal Negative Feedback by BHLHE40 and BHLHE41. Cell Reports 33(6), 108371 (2020).

7. **Lingfei Wang**, Pieter Audenaert, and Tom Michoel§. High-Dimensional Bayesian Network Inference From Systems Genetics Data Using Genetic Node Ordering. Frontiers in Genetics 10, (2019).

8. **Lingfei Wang**§, and Tom Michoel. Accurate wisdom of the crowd from unsupervised dimension reduction. Royal Society Open Science 6(7), 181806 (2019).

9. Deepti Vipin, **Lingfei Wang**, Guillaume Devailly, Tom Michoel, and Anagha Joshi§. Causal Transcription Regulatory Network Inference Using Enhancer Activity as a Causal Anchor. International Journal of Molecular Sciences 19(11), 3609 (2018).

10. **Lingfei Wang**, and Tom Michoel§. Efficient and accurate causal inference with hidden confounders from genome-transcriptome variation data. PLOS Computational Biology 13(8), e1005703 (2017).

11. Changhong Li, **Lingfei Wang**, and Yeuk-Kwan E. Cheung‡. Bound to bounce: A coupled scalar–tachyon model for a smooth bouncing/cyclic universe. Physics of the Dark Universe 3, 18--33 (2014).

12. Anupam Mazumdar, and **Lingfei Wang**†‡. CMB dipole asymmetry from a fast roll phase. Journal of Cosmology and Astroparticle Physics 2013(10), 049 (2013).

13. **Lingfei Wang**, and Anupam Mazumdar‡. Small non-Gaussianity and dipole asymmetry in the cosmic microwave background. Physical Review D 88(2), 023512 (2013).

14. **Lingfei Wang**, Ernestas Pukartas, and Anupam Mazumdar‡. Visible sector inflation and the right thermal history in light of Planck data. Journal of Cosmology and Astroparticle Physics 2013(07), 019 (2013).

15. **Lingfei Wang**, and Anupam Mazumdar‡. Cosmological perturbations from a spectator field during inflation. Journal of Cosmology and Astroparticle Physics 2013(05), 012 (2013).

16. Anupam Mazumdar, and **Lingfei Wang**†‡. Creating perturbations from a decaying field during inflation. Physical Review D 87(8), 083501 (2013).

17. Anupam Mazumdar, and **Lingfei Wang**†‡. Separable and non-separable multi-field inflation and large non-Gaussianity. Journal of Cosmology and Astroparticle Physics 2012(09), 005 (2012).

18. **Lingfei Wang**§. Preheating and locked inflation: an analytic approach towards parametric resonance. Journal of Cosmology and Astroparticle Physics 2011(12), 018 (2011).

### Books & Chapters

1. **Lingfei Wang**§, and Tom Michoel. Whole-Transcriptome Causal Network Inference with Genomic and Transcriptomic Data. In Gene Regulatory Networks: Methods and Protocols, Springer Science+Business Media (2019).

2. **Lingfei Wang**, and Tom Michoel§. Detection of Regulator Genes and eQTLs in Gene Networks. In Systems Biology in Animal Production and Health, Vol. 1, Springer International Publishing (2016).

### Preprints and Other Interim Research Products

1. **Matthew W. Funk**, **Yuhe Wang**, and **Lingfei Wang**§. Airqtl dissects cell state-specific causal gene regulatory networks with efficient single-cell eQTL mapping (2025). https://www.biorxiv.org/content/10.1101/2025.01.15.633041v2.

2. Sean Bankier\*, Valborg Gudmundsdottir\*, Thorarinn Jonmundsson, Heida Bjarnadottir, Joseph Loureiro, **Lingfei Wang**, Nancy Finkel, Anthony P. Orth, Thor Aspelund, Lenore J. Launer, Johan LM Björkegren, Lori L. Jennings, John R. Lamb, Vilmundur Gudnason§, Tom Michoel§, and Valur Emilsson§. Circulating causal protein networks linked to future risk of myocardial infarction (2025). https://www.medrxiv.org/content/10.1101/2025.02.07.25321789v1.

3. **Lingfei Wang**§, and Tom Michoel. Controlling false discoveries in Bayesian gene networks with lasso regression p-values (2017). http://arxiv.org/abs/1701.07011.

### Devices/Software Applications

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| --- | --- |
| AirqtlURL: https://github.com/grnlab/airqtlDOI: 10.5281/zenodo.14658032 | 2025 |
| DictysURL: https://github.com/pinellolab/dictysDOI: 10.5281/zenodo.7072040 | 2023 |
| NormalisrURL: https://github.com/lingfeiwang/normalisrDOI: 10.5281/zenodo.3897508 | 2021 |
| MDAURL: https://github.com/lingfeiwang/mdaDOI: 10.5281/zenodo.4070248 | 2021 |
| LassopvURL: https://cran.r-project.org/package=lassopvURL: https://github.com/lingfeiwang/lassopvDOI: 10.5281/zenodo.594121 | 2017 |
| FindrURL: https://github.com/lingfeiwang/findrDOI: 10.5281/zenodo.593963 | 2017 |

## Invited Presentations

### International

|  |  |
| --- | --- |
| Dissecting causal gene regulatory networks from single-cell multiomic data, National Center for Mathematics and Interdisciplinary Sciences, Chinese Academy of Sciences, Beijing (Virtual), China | 12/2024 |
| Causal inference of gene regulatory networks from single-cell data, University of Bergen, Bergen, Norway | 09/2024 |
| Causal gene networks in single cells, Zhejiang University, Hangzhou, China | 12/2023 |
| Causal gene networks in single cells, Shanghai Jiaotong University, Shanghai, China | 12/2023 |
| Reconstructing causal gene regulatory networks from single-cell multi-omic data, CRE, Beijing, China | 11/2023 |
| Reconstructing causal gene regulatory networks from single-cell multi-omic data, Beijing Forestry University, Beijing, China | 11/2023 |
| Causal gene networks in single cells, Jilin University, Changchun, China | 11/2023 |
| Dictys: dynamic gene regulatory network dissects developmental continuum with single-cell multi-omics, GSK plc, Virtual | 04/2023 |
| Molecular circuits and rewiring, Stockholm University, Stockholm (Virtual), Sweden | 04/2023 |
| (Re)building your own gene regulatory networks, Zhejiang University, Hangzhou (Virtual), China | 05/2022 |
| Network reconstruction at single-cell level, Nanjing Medical University, Nanjing (Virtual), China | 11/2021 |

### National

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| Airqtl: efficient single-cell eQTL mapping enables causal gene regulatory network inference, International Conference on Intelligent Biology and Medicine, Houston, TX, USA | 10/2024 |
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### Regional

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| Unravelling molecular networks, University of Massachusetts Chan Medical School, Worcester (Virtual), MA, USA | 02/2023 |
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### Local

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| Unravelling gene regulatory networks from single cells, Annual Retreat, University of Massachusetts Chan Medical School, Amherst, MA, USA | 10/2024 |
| Causal inference of gene regulatory networks, Department of Systems Biology, University of Massachusetts Chan Medical School, Worcester, MA, USA | 09/2024 |

## Other Presentations, Posters & Abstracts

### International

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| --- | --- |
| Lingfei Wang. Airqtl: causal inference of gene regulatory networks from efficient single-cell eQTL mapping, RECOMB/ISCB Conference on Regulatory & Systems Genomics with DREAM Challenges, Madison, WI, USA (oral) | 10/2024 |
| Lingfei Wang. Dictys: dynamic gene regulatory network dissects developmental continuum with single-cell multiomics, European Conference on Computational Biology, Turku, Finland (oral) | 09/2024 |
| Lingfei Wang. Dynamic gene regulatory network dissects developmental continuum with single-cell multiomics, Frontiers in Single Cell Genomics, Cold Spring Harbor Asia, Suzhou, China (oral) | 12/2023 |
| Lingfei Wang. Dictys: dynamic gene regulatory network dissects developmental continuum with single-cell multi-omic data, National Conference on Bioinformatics and Systems Biology of China, Qingdao, China (oral) | 10/2023 |
| Lingfei Wang. Dictys: dynamic gene regulatory network dissects developmental continuum with single-cell multi-omic data, National Conference on Bioinformatics and Systems Biology of China, Qingdao, China (poster) | 10/2023 |
| Lingfei Wang. Dictys: dynamic gene regulatory network inference from single-cell multi-omics, Intelligent Systems for Molecular Biology, Madison, WI, USA (oral) | 07/2022 |
| Lingfei Wang. Unravelling single-cell multi-omic gene regulatory networks with stochastic kinetic models, Stochastic Physics in Biology, Gordon Research Seminar, CA, USA (oral) | 10/2021 |
| Lingfei Wang. Unravelling single-cell multi-omic gene regulatory networks with stochastic kinetic models, Stochastic Physics in Biology, Gordon Research Conference, CA, USA (poster) | 10/2021 |
| Lingfei Wang. Normalisr: inferring single-cell differential and co-expression with linear association testing, International Conference on Machine Learning, Workshop on Computational Biology, Virtual (oral) | 07/2020 |
| Lingfei Wang. Inferring single-cell differential and co-expression with linear association testing, Intelligent Systems for Molecular Biology, Virtual (oral) | 07/2020 |
| Lingfei Wang. Normalisr: Inferring single-cell differential and co-expression, International Conference on Machine Learning, Workshop on Computational Biology, Virtual (poster) | 07/2020 |
| Lingfei Wang. Normalisr: Inferring single-cell differential and co-expression, Intelligent Systems for Molecular Biology, Virtual (poster) | 07/2020 |
| Lingfei Wang. Wisdom of the crowd from unsupervised dimension reduction, RECOMB/ISCB Conference on Regulatory & Systems Genomics with DREAM Challenges, New York, NY, USA (poster) | 11/2017 |
| Lingfei Wang. Scalable causal gene network inference with Findr, RECOMB/ISCB Conference on Regulatory & Systems Genomics with DREAM Challenges, Pheonix, AZ, USA (oral) | 11/2016 |
| Lingfei Wang. Findr: saving causal inference from confounders, European Conference on Computational Biology, Workshop on Network Inference, the Hague, Netherlands (oral) | 09/2016 |
| Lingfei Wang. Causal inference, impaired by confounders and saved by alternative tests, Probabilistic Modeling in Genomics 16, Oxford, UK (poster) | 09/2016 |
| Lingfei Wang. Causal inference, impaired by confounders and saved by alternative tests, European Conference on Computational Biology 16, the Hague, Netherlands (poster) | 09/2016 |
| Lingfei Wang. Spectator mechanism and CMB power asymmetry, Cosmology Workshop, Nanjing University, Nanjing, China (oral) | 02/2014 |
| Lingfei Wang. Spectator mechanism and CMB power asymmetry, Institute of High Energy Physics, Chinese Academy of Sciences, Beijing, China (oral) | 02/2014 |
| Lingfei Wang. Spectator mechanism and CMB power asymmetry, Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing, China (oral) | 02/2014 |
| Lingfei Wang. A new mechanism for curvature perturbations, University of Göttingen, Germany (oral) | 10/2013 |
| Lingfei Wang. A new mechanism for curvature perturbations, University of Bonn, Germany (oral) | 10/2013 |
| Lingfei Wang. A new mechanism for curvature perturbations, University of Genevé, Switzerland (oral) | 10/2013 |
| Lingfei Wang. A new mechanism for curvature perturbations, International Centre for Theoretical Physics, Trieste, Italy (oral) | 10/2013 |
| Lingfei Wang. Spectator mechanism and the CMB modulation, AstroParticule et Cosmologie, Université Paris Diderot, Paris, France (oral) | 10/2013 |
| Lingfei Wang. Spectator mechanism and the CMB modulation, Institut d'Astrophysique de Paris, Paris, France (oral) | 10/2013 |
| Lingfei Wang. Spectator mechanism and the CMB modulation, Scuola Internazionale Superiore di Studi Avanzati, Trieste, Italy (oral) | 10/2013 |
| Lingfei Wang. CMB asymmetry from fast roll, COSMO 2013, CTC, University of Cambridge, UK (oral) | 09/2013 |
| Lingfei Wang. A new mechanism for curvature perturbations, University of Helsinki, Finland (oral) | 09/2013 |
| Lingfei Wang. Spectator mechanism and the CMB modulation, University of Heidelberg, Heidelberg, Germany (oral) | 09/2013 |
| Lingfei Wang. The spectator field and its perturbations, Strings, Cosmology and Gravity Student Conference, Institut Henri Poincaré, Paris, France (oral) | 10/2012 |
| Lingfei Wang. A backward formalism for multi-field inflation, COSMO 2012, Chinese Academy of Sciences, Beijing, China (oral) | 09/2012 |
| Lingfei Wang. A backward formalism for multi-field inflation, Nanjing University, China (oral) | 08/2012 |

### National

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| Lingfei Wang. Delineating dynamic gene regulatory network rewiring in development with single-cell multi-omics, Networks Working Group, Impact of Genomic Variation on Function Consortium, Virtual (oral) | 07/2022 |
| Lingfei Wang. Unravelling gene regulatory networks from single-cell transcriptome and chromatin accessibility profiles, Network Biology, Cold Spring Harbor Laboratory (Virtual), NY, USA (oral) | 03/2021 |
| Lingfei Wang. Normalisr: Inferring single-cell differential and co-expression, Systems Biology: Global Regulation of Gene Expression, Cold Spring Harbor Laboratory, NY (Virtual), USA (poster) | 03/2020 |
| Lingfei Wang. Infer pairwise gene regulations with Findr, In Silico Systems Biology EMBL-EBI-Wellcome Trust Course, Hinxton, UK (poster) | 07/2016 |
| Lingfei Wang. The spectator field and its perturbations, UK Cosmo Meeting, Imperial College London, UK (oral) | 03/2013 |
| Lingfei Wang. The spectator field and its perturbations, Young Theorists Forum, IPPP, Durham, UK (oral) | 12/2012 |
| Lingfei Wang. Solving two-field inflation with non-separable potential, UK Cosmo Meeting, University of Sussex, UK (oral) | 03/2012 |
| Lingfei Wang. A tachyon-curvature approach to cyclic universe, Winter Workshop on Early Universe and Dark Energy, KITPC, Beijing, China (oral) | 12/2010 |

### Regional

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### Local

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| Lingfei Wang. Unravelling dynamic gene network rewiring from single-cell multi-omics with Dictys, Cell Circuits & Epigenomics, Broad Institute of MIT and Harvard, Cambridge, MA, USA (oral) | 04/2023 |
| Lingfei Wang. Unravelling single-cell multi-omic gene regulatory networks with stochastic kinetic models, Broad Institute Annual Retreat, Cambridge, MA, USA (poster) | 12/2022 |
| Lingfei Wang. Unravelling single-cell multi-omic gene regulatory networks with stochastic kinetic models, Center for Cancer Research Annual Retreat, Boston, MA, USA (poster) | 06/2022 |
| Lingfei Wang. Dynamic gene network rewiring delineates drivers and stages of blood development, Cancer Research Center, Massachusetts General Hospital, Boston, MA, USA (oral) | 03/2022 |
| Lingfei Wang. Unravelling single-cell multi-omic gene regulatory networks with stochastic kinetic models, Gene Regulation Observatory Annual Retreat, Cambridge, MA, USA (poster) | 02/2022 |
| Lingfei Wang. Unravelling single-cell multi-omic gene regulatory networks with stochastic kinetic models, Broad Institute Annual Retreat, Cambridge, MA, USA (poster) | 12/2021 |
| Lingfei Wang. Unravelling dynamic gene regulatory networks from single-cell transcriptome and chromatin accessibility profiles, Gene Regulation Observatory, Broad Institute of MIT and Harvard, Cambridge, MA, USA (oral) | 06/2021 |
| Lingfei Wang. Normalisr: Inferring single-cell differential and co-expression, Harvard Medical School Genetics Retreat, Cambridge, MA, USA (poster) | 02/2020 |
| Lingfei Wang. Reconstruction of whole-transcriptome causal networks with genome-transcriptome variation data, 12th Edinburgh Bioinformatics Meeting, Edinburgh, UK (oral) | 12/2017 |
| Lingfei Wang. Wisdom of the crowd and its biomedical applications, Edinburgh Alliance for Complex Trait Genetics 13th Meeting, Edinburgh, UK (oral) | 10/2017 |
| Lingfei Wang. Infer genetic regulations, The Roslin Institute, University of Edinburgh, UK (oral) | 08/2016 |
| Lingfei Wang. A new mechanism for curvature perturbations, Lancaster University, Lancaster, UK (oral) | 05/2013 |
| Lingfei Wang. Curvature bounce - competition v.s. coupled tachyon matter, Cosmology Workshop at Zhongshan Forum, Nanjing, China (oral) | 11/2009 |

## Academic Service

## Internal Administration and Service

### Department

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| Catalytic Grant Review Panel (Member), Department of Genomics and Computational Biology | 2024 |
| Meeting with faculty candidate Jacob Schreiber (Member), Department of Genomics and Computational Biology | 2024 |
| Lunch with faculty candidate Jacob Schreiber (Member), Department of Genomics and Computational Biology | 2024 |

### School

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| Dissertation Examination Committee for Thomas Reimonn (Member), Morningside Graduate School of Biomedical Sciences | 2025 |
| Dissertation Examination Committee for Jack Huey (Member), Morningside Graduate School of Biomedical Sciences | 2025 |
| Departmental co-representative for “Committee on Scientific and Research Affairs” (Member), University of Massachusetts Chan Medical School | 2025 |
| Dissertation Examination Committee for Yuqing Wang (Member), Morningside Graduate School of Biomedical Sciences | 2025 |
| BCCB PhD applicant interview committee (Member\*3), Morningside Graduate School of Biomedical Sciences | 2025 |
| GSBS PhD applicant interview committee (Member\*3), Morningside Graduate School of Biomedical Sciences | 2025 |
| TRAC for Thomas Reimonn (Member), Morningside Graduate School of Biomedical Sciences | 2025 |
| Admitted PhD student 1:1 (Member\*3), Morningside Graduate School of Biomedical Sciences | 2025 |
| Chan Fellow finalists interview committee (Member\*2), Department of Genomics and Computational Biology | 2025 |
| Committee on Scientific and Research Affairs (Member), University of Massachusetts Chan Medical School | 2025 |
| Departmental representative for “Academic Affairs Peer Coaching group” (Member), University of Massachusetts Chan Medical School | 2024 |
| Dissertation Examination Committee for Mingshi Gao (Member), Morningside Graduate School of Biomedical Sciences | 2024 |
| TRAC for Thomas Reimonn (Member), Morningside Graduate School of Biomedical Sciences | 2024 |
| Departmental representative for lunch with IT candidate Eduardo Zaborowski (Member), Department of Genomics and Computational Biology | 2024 |
| TRAC for Thomas Reimonn (Member), Morningside Graduate School of Biomedical Sciences | 2024 |

## Editorial Responsibilities

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| --- | --- |
| Nucleic Acids Research Genomics and Bioinformatics, reviewer | 2025 |
| Nature Computational Science, reviewer | 2024 |
| Genome Biology, reviewer | 2024 |
| Nature Communications, reviewer | 2024 |
| Frontiers in Genetics, reviewer | 2022 |
| Molecular Systems Biology, reviewer | 2021 |
| Genes, reviewer | 2020 |
| Scientific Report, reviewer | 2017 |
| The European Physical Journal C, reviewer | 2014 |

### External Professional Service

### International

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| --- | --- |
| LEAD AI postdoctoral candidate interview committee (Member), University of Bergen | 2025 |
| LEAD AI postdoctoral candidate selection committee (Member), University of Bergen | 2025 |

### National

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| BDMA study section (Member), National Institutes of Health | 2025 |
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## Professional Development

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| iCAP (UMass Chan Medical School), Worcester, MA, USA | 2023-2025 |