**Ji Seon (Jiseon) Min**
**jiseonm@uoregon.edu**

## Employment/Education

| | |
|---|---|
| University of Oregon, Postdoctoral Researcher (Kern-Ralph colab) | 2022. Sep - Present |
| Oxford Statistical Genomics Summer School | 2023. June |
| Harvard University, Ph.D. in Molecules, Cells and Organisms, M.S. in Applied Math (co-advised by Michael Desai and Ariel Amir) | 2018. Sep - 2022. Nov |
| Boulder School for Condensed Matter and Materials Physics (Theoretical Biophysics) | 2019. July |
| California Institute of Technology, B.S. in Physics | 2014. Sep - 2018. June |
| University of Cambridge, NST Physics Part II, III | 2018. Jan - 2018. Mar |
| MBL Physiology Course | 2015. June - 2015. July |

## Selected Honors and Awards

| | |
|---|---|
| Harvard NSF-Simons Qbio PhD Fellowship | 2021 Fall - 2022 Spring |
| Certificate of Distinction in Teaching | 2021 Spring, 2019 Fall |
| Korean Presidential Science Scholarship | 2014. Aug - 2018. June |
| Monticello/Noland Summer Internship | 2017. June - 2017. Aug |
| Caltech Summer Undergraduate Research Fellowship | 2016. June - 2016. Aug |
| George W. Housner Student Discovery Fund | 2017. Nov, 2015. June |
| Ph11 Research Fellowship | 2014. June - 2014. Aug |
| International Young Physicists' Tournament - 2nd place, Gold | 2013. May |

## Presentations

| | |
|---|---|
| MIT Physics of Living system (invited talk),"Spatial structure alters the patterns of genetic diversity produced by hitchhiking" | 2022. May |
| SMBE (poster),"Spatial structure alters the allele frequency spectrum produced by hitchhiking" | 2021. June |
| APS March Meeting (oral), "Optimal segregation of proteins: phase transitions and symmetry breaking" | 2019. March |
| CUWiP UCLA (poster), "Investigating metal to insulator phase transition of 5d pyrochlore using pump probe method" | 2017. Jan |
| Boston Bacterial Meeting (poster) "Analysis of archaeal cell shape change induced by mechanical stress" | 2016. May |

## Teaching Experiences

| | |
|---|---|
| Bio 401 (Research), Mentor, University of Oregon | 2023 Fall |
| Wellesley College Research Week, Mentor and Lecturer | 2022 Winter |
| OEB 242 (Population Genetics), Teaching Fellow, Harvard | 2021 Spring |
| AM 203 (Introduction to Disordered Systems and Stochastic Processes), Teaching Fellow, Harvard | 2019-2020 Fall |
| Ph 11 (Freshman Seminar : Research Tutorial), Teaching Assistant, Caltech | 2016 Fall - 2017 Spring |

## Publications and Preprints

1. **J Min**, M Gupta, MM Desai, MB Weissman, “Spatial structure alters the site frequency spectrum produced by hitchhiking.”, Genetics 222 (3), iyac139, (2022)
2. **JS Min**, “Coarse-grained Models of Biological Systems and Asymptotic Analyses on Population Dynamics” (2022)
3. **J Min**, A Amir, “A transport approach to relate asymmetric protein segregation and population growth.”, Journal of Statistical Mechanics: Theory and Experiment 7, 074503, (2021)
4. E Levien, **J Min**, J Kondev, A Amir, “Non-genetic variability in microbial populations: survival strategy or nuisance?”, Reports on Progress in Physics 84 (11), 116601 (2021)
5. F Barber, **J Min**, AW Murray, A Amir, “Modeling the impact of single-cell stochasticity and size control on the population growth rate in asymmetrically dividing cells.”, PLOS Computational Biology 17 (6), e1009080 (2021)
6. MS Johnson, S Gopalakrishnan, J Goyal, ME Gillingham, CW Bakerlee, PT Humphrey, T Jagdish, DR Jerison, K Kosheleva, KR Lawrence, **J Min**, A Moulana, AM Phillips, JC Piper, R Purkanti, A Rego-Costa, MJ McDonald, AN Nguyen Ba, MM Desai, “Phenotypic and molecular evolution across 10,000 generations in laboratory budding yeast populations.”, ELife 10, e63910 (2021)
7. PB Dieterle, **J Min**, D Irimia, A Amir, “Dynamics of diffusive cell signaling relays.”, ELife 9, e61771 (2020)
8. J Lin, **J Min**, A Amir. "Optimal segregation of proteins: phase transitions and symmetry breaking.", Physical Review Letters 122.6 (2019): 068101.