**Xiang Ji** , **Ph.D.**

**Bioinformatics Research Center and Department of Statistics**

**North Carolina State University**

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| Peking University, China | Physics | B.S. 2011 |
| Peking University, China | Economics (Double Major) | B.S. 2011 |
| North Carolina State University | Material Science and Engineering | M.S. 2013 |
| North Carolina State University | Bioinformatics | Ph.D. 2017 |
| North Carolina State University | Statistics (Co-Major) | Ph.D. 2017 |

A. Professional Preparation

B. Awards

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| NIEHS Fellowship[[1]](#footnote-1) | North Carolina State University | 2015 |
| Graduate Fellow | SAMSI[[2]](#footnote-2) | 2014 |
| Tuition scholarship | SISG[[3]](#footnote-3) | 2013 |
| University Graduate Fellowship | North Carolina State University | 2011 |

C. Publications

* **Ji, X.**, Thorne, J. L. (2017) A joint consideration of interlocus gene conversion and gene duplication loss histories of primate ADH1 genes. *in prep*.
* **Ji, X.**, Thorne, J. L. (2017) A phylogenetic approach for estimation of interlocus gene conversion tract length in yeast. *in prep*.
* Xiang, Q., Dong, Y., Douglas, N., **Ji, X.**, Obata, S., Pais, A., Peet, R. (2017) Phylogeography of *Nyssa sylvatica* complex (Nyssaceae, Cornales) – Integrative evidence from GBS data and gene sequencing. *in prep.*
* **Ji, X.**, Griffing, A., & Thorne, J. L. (2016). A phylogenetic approach finds abundant interlocus gene conversion in yeast. *Molecular Biology and Evolution*, 33(9), 2469-2476.
* Wang, K., Yu, S., **Ji, X.**, Lakner, C., Griffing, A., & Thorne, J. L. (2015). Roles of Solvent Accessibility and Gene Expression in Modeling Protein Sequence Evolution. *Evolutionary Bioinformatics online*, 11, 85.
* **Ji, X.** (2013). Laser Interference Lithography for Fabrication of Gas Sensors. Master Thesis
* Han, X., **Ji, X.**, Wen, H., & Zhang, J. (2012). H-shaped resonant optical antennas with slot coupling. *Plasmonics*, 7(1), 7-11.
* Xiao, G., **Ji, X.**, Gao, L., Wang, X., & Zhou, Z. (2012). Effect of dipole location on profile properties of symmetric surface plasmon polariton mode in Au/Al2O3/Au waveguide. *Frontiers of Optoelectronics*, 5(1), 63-67.

D. Synergistic Activities

* Professional service – I have reviewed manuscripts for *Molecular Biology and Evolution*.
* Software – My software for studying interlocus gene conversion is freely available at https://github.com/xji3/JGT\_MBE\_2016
* Outreach – I served as treasurer on the ASSIST[[4]](#footnote-4) student leadership council in 2012 and 2013. I participated in the Magnet Fair at South Raleigh Magnet High School as an ASSIST center graduate representative in 2012.

1. The funds were matched through North Carolina State University [↑](#footnote-ref-1)
2. SAMSI: The Statistical and Applied Mathematical Sciences Institute [↑](#footnote-ref-2)
3. SISG: Summer Institute in Statistical Genetics at University of Washington at Seattle [↑](#footnote-ref-3)
4. ASSIST: The Center for Advanced Self-Powered Systems of Integrated Sensors and Technologies [↑](#footnote-ref-4)