

## Quantitative Biology / Machine Learning

1. J Zhou, MS Wong, **WC Chen**, AR Krainer, JB Kinney, DM McCandlish  
Higher-order epistasis and phenotypic prediction  
Proceedings of the National Academy of Sciences USA 119, e2204233119 (2022)
2. **WC Chen**, J Zhou, JM Sheltzer, JB Kinney, DM McCandlish  
Field-theoretic density estimation for biological sequence space with applications to 5' splice site diversity and aneuploidy in cancer  
Proceedings of the National Academy of Sciences USA 118, e2025782118 (2021)
3. **WC Chen**, A Tareen, JB Kinney  
Density estimation on small data sets  
Physical Review Letters 121, 160605 (2018)

## Nuclear Physics / Neutron Stars

1. **WC Chen**, J Piekarewicz  
Analytic insights on the information content of new observables  
Physical Review C 102, 042801 (2020) *Rapid Communication*
2. R Utama, **WC Chen**, J Piekarewicz  
Nuclear charge radii: density functional theory meets Bayesian neural networks  
Journal of Physics G 43, 114002 (2016)
3. **WC Chen**, J Piekarewicz  
Compactness of neutron stars  
Physical Review Letters 115, 161101 (2015)
4. **WC Chen**, J Piekarewicz  
Searching for isovector signatures in the neutron-rich oxygen and calcium isotopes  
Physics Letters B 748, 284 (2015)
5. J Piekarewicz, **WC Chen**, FJ Fattoyev  
Information and statistics: a new paradigm in theoretical nuclear physics  
Journal of Physics G 42, 034018 (2015)
6. **WC Chen**, J Piekarewicz  
Building relativistic mean field models for finite nuclei and neutron stars  
Physical Review C 90, 044305 (2014) *Editors' Suggestion*
7. **WC Chen**, J Piekarewicz, A Volya  
Relativistic mean field plus exact pairing approach to open shell nuclei  
Physical Review C 89, 014321 (2014)
8. **WC Chen**, J Piekarewicz, M Centelles  
Giant monopole energies from a constrained relativistic mean-field approach  
Physical Review C 88, 024319 (2013)