Selected Publications (*peer-reviewed)

- Full list available at Google Scholar
- **Stats:** 9292 citations, h-index 42, i-10 index: 94, 107 peer-reviewed publications
- 96 GCNs + 11 ATELs + 4 AstroNotes (non-refereed), 78 preprints + proceedings

2024 *tdescore: An Accurate Photometric Classifier for Tidal Disruption Events*
R. Stein et al. (submitted)
Lead author of study, which developed first accurate ML classifier for discovering TDEs using only photometric data

Establishing accretion flares from massive black holes as a major source of high-energy neutrinos
S. van Velzen, **R. Stein** et al., (submitted)
Second author, developed likelihood analysis to test for correlations between neutrinos and probable TDE-like flares using optical-MIR emission

2023 *Neutrino Follow-Up with the Zwicky Transient Facility*
***R. Stein** et al., MNRAS, Volume 521, Issue 4
Lead author, data analysis, statistical analysis, led follow-up program

Constraining High-energy Neutrino Emission from Supernovae with IceCube
*IceCube Collaboration, ApJL 949 L12
- **R. Stein** as one of three credited authors
Developed code and analysis framework, supervised lead author J Necker in completion of analysis

2022 *ASAS-SN follow-up of IceCube high-energy neutrino alerts*
*J. Necker, T. de Jaegar, **R. Stein** et al., MNRAS, Volume 516, Issue 2
Data analysis, statistical analysis, development of paper

The candidate tidal disruption event AT2019fdr coincident with a high-energy neutrino
*S. Reusch, **R. Stein** et al., Phys. Rev. Lett. 128, 221101
Second author, lead realtime follow-up and data analysis, statistical analysis, contributed radio data

2021 *A tidal disruption event neutrino coincident with a high-energy neutrino*
***R. Stein** et al., 2021, Nat Astron 5, 510-518
Lead author, Developed analysis framework, led follow-up program, modelling, statistical analysis

2020 *Kilonova Luminosity Function Constraints based on Zwicky Transient Facility searches for 13 Neutron Star Mergers*
*M. M. Kasliwal, S. Anand, T. Ahumada **R. Stein** et al., ApJ, 905, 145
Developed one of three analysis frameworks, realtime follow-up and data analysis

2019 *Search for Neutrinos from Populations of Optical Transients*
, **R. Stein** for the IceCube Collaboration, PoS(ICRC2019)1016
Developed likelihood analysis code, TDE catalogue compilation, data analysis