

# Stanford

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## Javier F. Acevedo

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### CONTACT INFORMATION

- **Alternate Contact**

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### Bio

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### EDUCATION AND CERTIFICATIONS

- PhD, Queen's University , Physics (2022)
- Undergrad, Universidad Nacional de Mar del Plata , Physics (2017)

### LINKS

- INSPIRE Profile: <https://inspirehep.net/authors/1791397>

### Professional

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### WORK EXPERIENCE

- Research Associate - SLAC National Accelerator Laboratory (October 1, 2022 - present)
- Research Associate - Queen's University (May 1, 2022 - September 30, 2022)

### Publications

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### PUBLICATIONS

- **Evaporation Barrier for Dark Matter in Celestial Bodies**  
Acevedo, J., Leane, R., Smirnov, J.  
arXiv e-print.  
2023 20
- **Accelerating composite dark matter discovery with nuclear recoils and the Migdal effect** *PHYSICAL REVIEW D*  
Acevedo, J. F., Bramante, J., Goodman, A.  
2022; 105 (2)
- **Warming nuclear pasta with dark matter: kinetic and annihilation heating of neutron star crusts** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*  
Acevedo, J. F., Bramante, J., Leane, R. K., Raj, N.  
2020
- **Mineral Detection of Neutrinos and Dark Matter. A whitepaper** *arXiv*  
Baum, S., et al  
2023: 113

- **Diffuse x-ray and gamma-ray limits on boson stars that interact with nuclei** *Journal of Cosmology and Astroparticle Physics*  
Acevedo, J. F., Bhoonah, A., Bramante, J.  
2022
- **Nuclear fusion inside dark matter** *PHYSICAL REVIEW D*  
Acevedo, J. F., Bramante, J., Goodman, A.  
2021; 103 (12)
- **Dark matter, destroyer of worlds: neutrino, thermal, and existential signatures from black holes in the Sun and Earth** *JOURNAL OF COSMOLOGY AND ASTROPARTICLE PHYSICS*  
Acevedo, J. F., Bramante, J., Goodman, A., Kopp, J., Opferkuch, T.  
2021
- **Old Rocks, New Limits: Excavated Ancient Mica Searches For Dark Matter**  
Acevedo, J., Bramante, J., Goodman, A.  
arXiv e-print.  
2021 21 pages, 4 figures
- **Supernovae sparked by dark matter in white dwarfs** *PHYSICAL REVIEW D*  
Acevedo, J. F., Bramante, J.  
2019; 100 (4)
- **Front propagation dynamics: Qualitative differences revealed by very high intensity fluctuations** *PHYSICAL REVIEW E*  
Mangioni, S. E., Fernandez Acevedo, J.  
2018; 98 (5)
- **Limiting the stroke of a Schmitt trigger with multiplicative noise** *PHYSICAL REVIEW E*  
Zarza, G. A., Mangioni, S. E., Fernandez Acevedo, J., Deza, R. R.  
2017; 95 (5): 052143

## PRESENTATIONS

- Celestial and underground searches for heavy dark matter - Queen's University (2022)