

Solène Lejosne

Personal website: solenelejosne.com

EXPERIENCE

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|-----------------|-------------------------------------|--------------------------|
| 2016 – Present | University of California, Berkeley | Assistant Researcher |
| 2014 – 2016 | University of California, Berkeley | Postdoctoral Scholar |
| 2013 (6 months) | British Antarctic Survey, Cambridge | Res. Assistant |
| 2010 – 2013 | University of Toulouse, France | Ph.D. Student |
| 2009 (3 months) | Swedish Institute of Space Physics | Undergrad Res. Assistant |

EDUCATION

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| 2010-2013 (2013) | University of Toulouse – Paul Sabatier, France <i>Doctor of Philosophy Degree in Astrophysical and Space Sciences</i> |
| 2009-2010 (2010) (2010) | ISAE-SUPAERO, Toulouse, France <i>Master of Science in Aerospace Engineering (Major: Space Systems)</i> <i>Master of Science in Astrophysics, Space Physics & Planetary Science</i> |
| 2006-2010 (2010) (2009) (2008) | École Polytechnique, Palaiseau, France <i>Diplôme de l'École Polytechnique</i> <i>Diplôme d'Ingénieur</i> <i>Bachelor of Science (Major: Physics and Mechanics for the Environment)</i> |

GRANTS, AWARDS AND HONORS

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| 2020-2023 | NASA Heliophysics Supporting Research Grant Award “ <i>Quantifying the impact of neutral winds in driving plasma dynamics in the Earth’s inner magnetosphere</i> ”. P.I.: Lejosne (\$743k). Subaward University of Colorado, Boulder |
| 2018-2021 | NASA Heliophysics Supporting Research Grant Award “ <i>Reassessing plasma transport in the Earth’s inner magnetosphere</i> ”. P.I.: Lejosne (\$666k) |
| 2020 Apr | AGU 2019 Editors’ Citation for Excellence in Refereeing |
| 2018 Mar | URSI Young Scientist Award Recipient, URSI AT-RASC |
| 2017 Jul | URSI GASS ECS Awardee |
| 2014 | Best Thesis Award by the Foundation ISAE-SUPAERO |
| 2012 | Young Scientist Award, Best Communication Skills, CNES-France |

PUBLICATIONS

24 PEER-REVIEWED PUBLICATIONS, 17 FIRST-AUTHORED (5 most recent below - full list available on personal website)

1. Lejosne, S., & Kollmann, P. (2020), Radiation Belt Radial Diffusion at Earth and Beyond. *Space Science Reviews*, <https://doi.org/10.1007/s11214-020-0642-6>
2. Lejosne, S. and F.S. Mozer (2020), Inversion of the Energetic Electron “Zebra Stripe” Pattern Present in the Earth’s Inner Belt and Slot Region: First Observations and Interpretation, *Geophys. Res. Lett.* <https://doi.org/10.1029/2020GL088564>
3. Lejosne, S. and F.S. Mozer (2020), Experimental Determination of the Conditions Associated with “Zebra Stripe” Pattern Generation in the Earth’s Inner Radiation Belt and Slot Region. *J. Geophys. Res. Space Physics*. <https://doi.org/10.1029/2020JA027889>
4. Lejosne, S. (2020), Electromagnetic Radial Diffusion in the Earth’s Radiation Belts as Determined by the Solar Wind Immediate Time History and a Toy Model for the Electromagnetic Fields. *J. Geophys. Res. Space Physics*. <https://doi.org/10.1029/2020JA027893>
5. Lejosne, S. (2019). Analytic Expressions for Radial Diffusion. *J. Geophys. Res. Space Physics*, <https://doi.org/10.1029/2019JA026786>. **Top 10% most downloaded papers published in JGR Space Physics 2018-2019. Editors’ Picks in the first AGU Advances digest.**

PRESENTATIONS

15 SEMINARS, 5 INVITED TALKS, 21 CONTRIBUTED PRESENTATIONS (TALKS OR POSTERS) AT INTERNATIONAL CONFERENCES (3 most recent seminars below - full list available on personal website)

1. Everything You Always Wanted to Know about Radial Diffusion* – *But were afraid to ask, **University of Helsinki, Finland**, Nov 2019.
2. Sixty Years of Radial Diffusion Research in the Earth’s Radiation Belts – Is it Time for a Paradigm Shift? **Rice University, TX**, Nov 2019.
3. Energetic Electron Injections Deep Into The Inner Magnetosphere: a Result of the SubAuroral Polarization Stream (SAPS) Potential Drop, **Cambridge, UK**, Jul 2018.

SYNERGISTIC ACTIVITIES

1. SESSION CHAIR: AGU FALL MEETING 2019 “Waves, Plasma, and Convection in the Subauroral Geospace”
2. REVIEWER: NASA Proposal, Journals (*Journal of Geophysical Research, Space Physics, Geophysical Research Letters*), Book (Roederer & Zhang, 2014)
3. DIGITAL PRESENCE: Personal website, @SoleneLejosne on Twitter
4. IN-PERSON OUTREACH: Toulouse Museum; Elementary school, France
5. STUDENT SUPERVISION: 2 undergraduates students (Summer 2019; Summer 2019-Summer 2020), 1 graduate student (Fall 2019-Summer 2020)