

Omid Sameie

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Education

- 2014-2019, PhD candidate in Astrophysics, University of California Riverside, USA.
 - Dissertation: “Halo Formation and Evolution in Alternative Dark Matter Models”
 - Advisors: Laura Sales, Hai-Bo Yu
- 2012-2014, M.S. in Physics and Astronomy, Shahid Beheshti University, Tehran, Iran.
 - Dissertation: “Anisotropic Inflation and Primordial Magnetic Fields”
 - Advisors: Hassan Firouzjahi, HamidReza Sepangi
- 2008-2012, B.S. in Physics and Astronomy, Ferdowsi University of Mashhad, Mashhad, Iran.

Research Interests

Galaxy Formation, Large-scale Structure, Theoretical and Numerical Astrophysics and Cosmology.

Publications

- “The impact of baryonic disks on the shapes and profiles of the self-interacting dark matter halos” **Sameie, Omid**; Creasey, Peter; Yu, Hai-Bo; Sales, Laura V.; Vogelsberger, Mark; Zavala, Jesús. 2018, MNRAS, 479, 359.
- “The Effect of Dark Matter Interactions on Halo Abundance-a Press-Schechter approach” **Sameie, Omid**; Benson, Andrew; Sales, Laura V.; Yu, Haibo; Moustakas, Leonidas; Creasey, Peter (In preparation)
- “Globular Clusters Formed within Dark Halos I: present-day abundance, distribution and kinematics” Creasey, Peter; Sales, Laura V.; Peng, Eric W.; **Sameie, Omid**. 2018, arXiv:1806.11118
- “Spreading out and staying sharp - Creating diverse rotation curves via baryonic and self-interaction effects” Creasey, Peter; **Sameie, Omid**; Sales, Laura V.; Yu, Hai-Bo; Vogelsberger, Mark; Zavala, Jesús. 2017, MNRAS, 468, 2283.

Presentations

- 2018, Invited Speaker: Stanford University, Palo Alto, USA.
- 2018, Workshop Talk: Galacticus Workshop, Ohio State University, Columbus, USA.
- 2018, Conference Talk: 2018 Galaxy Formation and Evolution in Southern California, California Institute of Technology, Pasadena, USA.
- 2018, Conference Talk: 2018 Santa Cruz Galaxy Workshop, Santa Cruz, USA.
- 2017, Member of organizing committee, DaMaSC-IV symposium, California Institute of Technology, Pasadena, CA, USA.
- 2017, Invited Speaker, Institute for Research in Fundamental Sciences (IPM), Tehran, Iran.
- 2017, Invited Speaker, Ferdowsi University of Mashhad, Mashhad, Iran.
- 2014, Invited Speaker, Sharif University of Technology, Tehran, Iran.

Teaching Experience

- 2014-2016, Teaching Assistant, University of California, Riverside, USA.
- 2016, Research Assistant, University of California, Riverside, USA.
- 2012-2014, Research Assistant, Institute for Research in Fundamental Science (IPM), Tehran, Iran.
- 2014, Teaching Assistant, Shahid Beheshti University, Tehran, Iran.

Programming Skills

- **Language:** Python, C, Fortran, Linux
- **Software:** Arepo/GADGET, Galacticus, N-GenIC, MUSIC, SpherIC, CAMB

Honors and Awards

- 2018, Travel Grant, Ohio State University, Columbus, USA.
- 2016-Present, NASA MIRO FIELDS Fellowship, University of California, Riverside, USA.
- 2017, Travel Grant, National Elites Foundation, Iran
- 2014, Dean's Distinguished Fellowship, University of California, Riverside, USA.

Conferences Attended

- 2018, *Galacticus Workshop, Ohio State University, Columbus, USA*
- 2018, *Galaxy Formation and Evolution in Southern California, GalFRESCA, California Institute of Technology, Pasadena, USA*
- 2018, *2018 Santa Cruz Galaxy Workshop, University of California Santa Cruz, Santa Cruz, USA*
- 2017, *Dark Matter in Southern California-DaMaSC-IV, California Institute of Technology (CALTECH), Pasadena, USA.*
- 2017, *Recent Development in Numerical Simulations of Galaxy Formation-GALFRESCA II, California Institute of Technology (CALTECH), Pasadena, USA.*
- 2017, *TevPA 2017, Ohio State University, Columbus, USA*
- 2016, *Recent Development in Numerical Simulations of Galaxy Formation-GALFRESCA, California Institute of Technology (CALTECH), Pasadena, USA.*
- 2016, Data Science and Visualization Workshop, University of California Riverside, Riverside, USA.
- 2014, Observational Astronomy Workshop, Lick Observatory, University of California-San Jose, Mt Hamilton, CA, USA.
- 2013, Gravity and Cosmology, Shahid Beheshti University, Tehran, Iran.
- 2012, ADS/CFT Correspondence, Ferdowsi University of Mashhad, Mashhad, Iran.
- 2012, Quantum Information, IICQI, Sharif University of Technology, Tehran, Iran.
- 2012, Sixteenth Symposium on Astronomy, Astrophysics and Cosmology, IASBS, Zanjan, Iran.

Languages

- Persian (Native), English (Fluent)

References

Prof. Laura Sales

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Prof. Hai-Bo Yu

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Prof. Andrew Benson

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Prof. Leonidas Moustakas

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