

CURRICULUM VITAE

Smadar Naoz

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CONTACT INFORMATION

University of California Los Angeles,
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RESEARCH INTERESTS

Dynamics of multi-object system, including, planetary, stellar and black hole systems, globular clusters, spiral structure, compact objects etc. Gravitational wave merger, cosmology, structure formation in the early Universe, reionization and 21cm fluctuations.

EDUCATION

Tel Aviv University, Tel Aviv, Israel
Ph.D. in Physics, January 2010
Hebrew University of Jerusalem, Jerusalem, Israel
M.S. in Physics, Magna Cum Laude, 2004
B.S. in Physics 2002

POSITIONS

University of California, Los Angeles
Associate professor *since July 2019*
Howard & Astrid Preston Term Chair in Astrophysics *since July 2018*
Assistant professor *2014-2019*

Harvard Smithsonian CfA, Institute for Theory and Computation
Einstein Fellow, *September 2012 – June 2014*
ITC Fellow, *September 2011 – August 2012*

Northwestern University, CIERA
CIERA fellow and IAU Gruber fellow, *September 2010 – August 2011*
CIERA fellow and Postdoctoral associate in theoretical astrophysics, *January 2010 – August 2010*

SCHOLARSHIPS HONORS AND AWARDS

Helen B. Warner Prize, awarded by the American Astronomical Society, 2020
Scialog fellow, and accepted proposal, Signatures of Life in the Universe, 2020/2021 (*conference postponed to 2021 due to COVID-19*)
Career Commitment to Diversity, Equity and Inclusion Award, given by UCLA Academic Senate 2019. For other diversity awards, see §DEI.
UCLA department of Physics and Astronomy Howard & Astrid Preston Term Chair in Astrophysics, 2018
Hellman Fellows Award, awarded by Hellman Fellows Program, aimed to support the research of promising Assistant Professors who show capacity for great distinction in their research, June 2017
Multiple departmental teaching awards 2015-2021, see §Teaching, for details
Sloan Research Fellowships awarded by the Alfred P. Sloan Foundation, 2015
Annie Jump Cannon Prize awarded by the American Astronomical Society, 2015
The pH Lecture for the Observatory's outstanding young scientists awarded by the Hertelendy family of California and the CfA, 2014
Einstein Fellowship, awarded by NASA, Sept. 2012
ITC-Harvard prize Fellowship awarded by Harvard University – Smithsonian CfA and the In-

stitute for Theory and Computation (ITC) Sept. 2011

The Gruber Foundation Fellowship, awarded by the International Astronomical Union (IAU) and the Gruber Foundation, Sept. 2010 – Aug. 2011

The National Postdoctoral Award Program for Advancing Women in Science, awarded by Weizmann Institute of Science, Israel, 2009 – 2011

Dan David Prize Scholarship, awarded by the Dan David Foundation, Sept. 2009

John Bahcall Graduate Student Prize, awarded by Tel Aviv University, 2008

Ilan Ramon Award, awarded by Commercial & industrial club house, Israel, 2007

Don and Sara Marejn Scholarship Fund, Tel Aviv University, 2007

School of Physics and Astronomy award for outstanding achievements, awarded by Tel Aviv University, 2006

M.Sc Magna Cum Laude, Hebrew University of Jerusalem 2004

The Rector's Prize for excellent Master's students, awarded by Hebrew University (top 5% in the science studies), 2004

The Arnold Rosenblum Prize for outstanding achievement as a graduate student in Astrophysics, awarded by Hebrew University, 2003

MENTORING

UCLA

Postdocs

Santiago Torres, October 2020 – present

Erez Michaely September 2020 – present

Graduate Students

Zeyuan Xuan, October 2021 – present

Claire Williams, August 2021 – present

Elizabeth (Liz) Holzknecht, July 2020 – present

Denyz Melchor, July 2020 – present

William Lake, January 2020 – present

Isabel Angelo, October 2019 – present

Thea Faridani, October 2019 – present

Sanaea Rose, August 2017 – present

Bao Minh Hoang, September 2016 – present

Former Graduate Students

Jesus Salas, April 2016 – May 2021; Now UCLA lecturer and Harvard-Westlake School faculty

Yeou Chiou, January 2017 – August 2020; Now Machine Learning Engineer at LinkedIn

Alexander P. Stephan, August 2014 – August 2020; Now OSU Presidential fellow and Buckeye Prize Postdoctoral Fellow

Juan Pablo (JP) Gatica, Physics-Bridge program first year mentor, 2018-2019 academic year

Kristian Barajas, Physics-Bridge program first year mentor, 2018-2019 academic year

Mason MacDougall, August 2018 – 2019

Alec Vinson, August 2014 – October 2014

Undergraduate Students

Nitya Ravi Summer 2021 –present

Melodie Sloneker Winter 2020 –present

Cuc Dinh Winter 2020 –July 2021

Eric Zhang Summer 2019 – August 2021

Cheryl Wang Summer 2019 – July 2021

Lingfeng Wei Cross-disciplinary Scholars in Science and Technology (CSST), UCLA summer program with China and Japan, July – August, 2018

Igor Van Der Put, June 2017 – summer 2019

Shelley Cheng, January 2017 – summer 2020
Daria Bonds CSUSM – *Cal-bridge Undergraduate Student*, September 2020 –
Joseph Soliz, CSULB – *Cal-bridge Undergraduate Student*, September 2019 – summer 2020
Becky Flores CSUN *Cal-bridge Undergraduate Student*, September 2017 – summer 2019
Joseph Guzman, REU (summer 2016) and CSLB - *Cal-bridge Undergraduate Student* June 2015 – August 2017
Paul Denham, June 2016 – summer 2018
Isabella Goetting, November 2016 – summer 2018
Cicero-Xinyu Lu, November 2014 – August 2017
Ahmed Qureshi, January 2016 – August 2017
Bao Minh Hoang, August 2014 – August 2016
Andrew Kaiser, REU, June – August 2015
Erika Holmbeck, Post-baccalaureate Student, September 2014 – August 2015

Harvard University
Graduate Students

Cristina Popa, Aug. 2014 – 2016; Now quantitative researcher at Two Sigma Investments
Gongjie Li, Sept. 2011 -2015; Now Assistant. Prof. in Georgia Tech (since Jan. 2018)

Northwestern University
Undergraduate Students

Jean Teyssandier, May 2010 – September 2011; Now a Postdoc at Cornell.
Ian Lizarraga, September 2010 – August 2011; Now a Postdoc The University of Sydney.
Leah A. Iasaman, REU, June – August 2011
Bradley Solomon, REU, June – August 2010

CONFERENCE
 PARTICIPATION AND
 PRESENTATION
 (SELECTED)

RESCEU summer school 2021 (virtual meeting), Tokyo, Japan, August, 2021 (invited lecturer)
 Niels Bohr Institute Summer school on Gravitational Waves, Copenhagen, Denmark, August, 2021 (invited lecturer, virtually)
 Division on Dynamical Astronomy 52 meeting - American Astronomical Society, Virtual meeting, May 2021 (organizer and SOC member, and two talks)
 TRiple EvolutioN and DYnamics (TRENDY) 3, Virtual meeting, March, 2021, (plenary talk)
 American Astronomical Society 237, Virtual meeting, January, 2021, (Helen B. Warner Award plenary talk)
 American Physical Society, The Far West Section, Virtual meeting, October 2020 (invited plenary talk)
 Exploring Supermassive Black Holes, Virtual meeting (Princeton IAS originally), October 2020 (invited talk)
 KITP program "Probing Effective Field Theories of Gravity in Strong Fields and Cosmology," Virtual meeting, September 2020 (invited panelist in Mixing scales and combining observation session)
 Division on Dynamical Astronomy 51 meeting - American Astronomical Society, Virtual meeting, August 2020 (organizer and SOC member, and talk)
 Extreme Solar Systems IV Reykjavik, Iceland, August, 2019 (invited talk)
 Advancing Theoretical Astrophysics summer school, Amsterdam, The Netherlands, July, 2019 (invited teacher)
 Planet-Star Connections in the Era of TESS and Gaia, KITP, Santa Barbara, May 2019 (invited talk)
 The Conference for Undergraduate Women in Physics (CUWiP), January 2019 (Plenary talk)
 Triple Evolution and Dynamics, Lorentz Center, Leiden, Netherlands, September, 2018 (invited

talk)

Open Questions in Astrophysics, Niels Bohr Institute, Copenhagen, Denmark, July 2018 (invited talk)

Gravitational Wave Astrophysics, Sackler Conference, Harvard, ITC, May 2018 (invited talk)

Stellar Dynamics in Galactic Nuclei,” Princeton, IAS, November 2017 (invited talk)

Dynamics and accretion at the Galactic Center,” Aspen Colorado, February 2016 (PI, talk)

American Astronomical Society 227, Kissimmee, Florida January 2016 (Annie Jump Cannon Award plenary talk)

Extreme Solar Systems III, Waikoloa Beach, Hawaii December 2015 (invited talk)

Astrophysics of Dark Matter,” Institute for the Physics and Mathematics of the Universe (Kavli IPMU), The University of Tokyo, Kashiwa, Chiba, Japan, October 2015 (invited talk)

IAU general assembly,” Honolulu, Hawaii, Aug 2015 (invited talk)

Sagan Summer Workshop on Exoplanetary System Demographics: Theory and Observations, Pasadena California, July 2015 (invited overview talk)

Exoplanets in Multi-body Systems in the Kepler Era,” Aspen, CO, February 2013 (invited talk)

Exoplanets and Binaries: CoRoT and Kepler Mission Results, and Future Challenges,” Tel Aviv, Israel, December 2012 (invited talk)

Extreme Solar Systems II, Jackson Hole, WY, September 2011 (invited talk)

Hydrogen Cosmology Workshop,” Cambridge, MA, USA, May 18 – 20, 2011 (invited talk)

CosmoFirstObjects: International Meeting on High-z Cosmology,” Marseille, French, May 3 – 6, 2011 (invited talk)

IAU Symposium 276 The Astrophysics of Planetary Systems: Formation, Structure, and Dynamical Evolution,” Torino, Italy, October 11 – 15, 2010 (talk)

10th Great Lakes Cosmology Workshop,” Chicago, IL, June 2010 (talk)

Aspen Winter Conference on Astrophysics The High Redshift Universe: A Multi- Wavelength View,” Aspen, Colorado, February 2010 (talk)

Haifa workshop on cosmology and optimal transport,” Haifa, Israel, March 2009 (talk)

The 53st Annual Meeting of the Israel Physical Society,” Be’er Sheva, Israel, December 2008 (talk)

Galaxy Evolution workshop,” Jerusalem, Israel, June 2008 (talk)

HI Survival through Cosmic Times,” Tuscan, Italy, June 11 – 15, 2007 (talk)

The 52st Annual Meeting of the Israel Physical Society,” Israel, December 2006 (talk)

Aspen Winter Conference on Astrophysics, Cosmological Probes of Baryons and Dark Matter,” Aspen, Colorado, January 2006 (talk)

The 51st Annual Meeting of the Israel Physical Society,” Israel, December 2005 (talk)

International School of Cosmic Ray Astrophysics 14th Course on Neutrinos and Explosive Events in the Universe,” Erice, Sicily, Italy, July 2004 (talk)

COLLOQUIA AND
SEMINARS
(SELECTED)

McGill Space Institute, McGill University, Montreal, Canada, virtual talk, September, 2021

The Universidad de Concepción, Chile, virtual talk, July 2021

Max Planck Institute for Gravitational Physics (Albert Einstein Institute, AEI), Germany, virtual

talk, May 2021
University of Hong Kong, colloquium, virtual talk, April 2021
Georgia Tech, virtual talk, March 2021
Stanford/KIPAC Astrophysics Colloquium, virtual talk, November, 2020
MIT, virtual talk, October 2020
Lamat talk at Meetings of the Minds seminar series, UCSC - virtual talk, July 2020
USC, Los Angeles, California, September, 2019
Caltech, Pasadena, California, May, 2019
University of Washington, Washington, January, 2019,
Caltech, Pasadena, California, December, 2018
University of Colorado, Boulder, Colorado, December, 2018
University of Texas, Austin, Texas, October, 2018
New York University, NYC, NY, September, 2018
University of California Riverside, Physics colloquium, CA, May 2018
University of California Santa Barbara, Astrophysics colloquium, CA, April 2018
University of Florida, Gainesville, Astrophysics colloquium, FL, April 2018
Yale University, New Haven, Astrophysics colloquium, CT, February, 2018
Center for Computational Astrophysics, Flatiron Institute, Colloquium, NY, September 2017
Cal-Poly Pemona, Physics colloquium, CA, May 2017
Harvard/CfA - ITC colloquium, MA, March 2017
Northwestern CIERA, IL January 2017
Carnegie observatories, CA September, 2016
Columbia University, NY September , 2016
CSUN, CA, August 2016
University of California, Santa Cruz, CA, May 2016
University of Michigan, MI, April 2016
CSU Long Beach, CA, February 2016
UCLA physics colloquium, CA, February 2016
Canadian Institute for Theoretical Astrophysics, University of Toronto, Canada, May 2015
University of Arizona, Arizona, USA, April 2015
Caltech, Tea talk, CA, USA, December 2014
University of California, Berkeley, TAC seminar, CA, USA, Nov. 2014
UC Irvin astro-colloquium, Oct. 2014
CfA colloquium, May 2014
IAS seminar, Princeton, NJ, April 2014
UMD, physics seminar, Maryland, November 2013
UCLA Astrophysics Colloquium, CA, April 2013

MIT physics Colloquium, MA, March 2013
 UMass Amherst, Astrophysics Colloquium, MA, USA, January 2013
 Ohio state University, Astrophysics Colloquium, OH, USA, November 2012
 University of California Santa Cruze, TASC FLASH Seminar, CA, USA, October 2012
 University of California Santa Barbara, Astro-Seminar, CA, USA, October 2012
 Rochester University, Astrophysics Colloquium, NY, USA, September 2012
 Cornell, Astrophysics Colloquium, NY, USA, September 2012
 Caltech, Tapir Seminar, CA, USA, March 2012
 University of California, Berkeley, CA, USA, March 2012
 Boston University, Astrophysics Seminar, MA, USA, October 2011
 Harvard University, ITC Colloquium, MA, USA, March 2011
 MIT, MA, USA, March 2011
 Weizmann institute, Astrophysics Seminar, Israel, October 2010
 Northwestern University, IL, USA, October 2010
 University of California, Berkeley, CA, USA, March 2012
 Fermilab, Astrophysics Seminar, Chicago, IL, USA May 2011
 Harvard University, MA, USA, September 2011
 Technion, Astrophysics Seminar, Haifa, Israel, October 2009
 University of Chicago, Seminar, IL, Chicago, USA, January 1010
 Northwestern University, IL, USA, January 2010
 Northwestern University, IL, USA, September 2009
 The Institute for the Physics and Mathematics of the Universe, University of Tokyo, Seminar, Kashiwa, Japan, May 2009
 The Hebrew University of Jerusalem, Astrophysics Seminar, Jerusalem, June, 2009
 Weizmann institute, Astrophysics Seminar, Rehovot, Israel, March 2009
 Caltech, Pasadena, Tapir Seminar, California, October 2008 (Tapir Seminar)
 UC Berkeley, Berkeley, California, September 2008
 Princeton University, Princeton, New-Jersey, September 2008
 ITC Harvard, Cambridge, MA, October 2008 (ITC Seminar)
 Tel Aviv University, Astrophysics Seminar, Tel Aviv, Israel, December, 2008

SERVICE
 (SELECTED):

In the community:

Referee for Astrophysical Journal, Astronomical Journal, Monthly Notices of the Royal Astronomical Society, Journal of Cosmology and Astroparticle Physics, Astronomy & Astrophysics (A&A), Celestial Mechanics, *Nature*, *Science*, *Physics Review Letters*, *PRL* and *PNAS*.
 An elected Division Committee in the American Astronomical Society (AAS) Division on Dynamical Astronomy (DDA), Since July 2018 – July 2021
 The Heising-Simons Foundation 51 Pegasi b fellowship external reviewer (winter 2020)
 Steering committee member (Summer 2015 – Dec. 2016) and a mentor at the Cal-bridge program

since 2015

(see <http://www.cpp.edu/~sci/physics-astronomy/research/cal-bridge.shtml>)

Invited Scientific Editor for *Nature* Scientific Reports (online journal in all areas of natural sciences by the Nature Publishing Group), July 2014 – 2020

NASA review panels: ATP review panel, Fall 2013, Fall 2016, Fall 2021 (*Chair*); HST review panel, Spring 2016; NASA TCAN review panel, Summer 2020; NASA LSP review panel, Spring 2021; Proposal reviewer for the NASA ATP Fall 2011; NASA emerging world Summer 2018

National Science Foundation (NSF) review panel, Spring 2013, Winter 2018

BSF: United States - Israel Binational Science Foundation reviewer, winter 2017

UK-RI Future Leaders Fellowships, Summer 2020

The Netherlands Organisation for Scientific Research, reviewer, 2016, 2018, 2020

* for conference organizations, see below.

In UCLA:

Chair of Physics and Astronomy diversity committee, UCLA, Fall 2020 – present

Chair of Astro-diversity committee, UCLA, Spring 2016 – Fall 2020

Chair of Physics-diversity committee, UCLA, Jan. 2017 – Fall 2020 (*leading the formation of APS - bridge program*)

Member of the Physical Sciences Diversity Committee, UCLA, Summer 2016 – present

Member of the Senate Committee on Diversity, Equity, and Inclusion (CODEI), Fall 2020 – present

UCLA Hellman Fellows panelist (summer 2020), URSP reviewer (2019), UC presidential fellowship reviewer (winter 2019)

Recruitment chair and DEI officer in the admission committee (2019 – present)

Search committees: EPSS Slichter chair search committee (2016-2017), Astronomy search committee (2018), Plasma search committee (2019-20), Experimental physics/ mentoring search (2020-2021)

Physics Comprehensive exam reform committee 2019/20

Physics Bridge admission committee 2018, 2019, 2020, 2021

UCLA's Division of Astronomy and Astrophysics **grad adviser representative** and coordinator of Graduate students and postdocs mentoring program, Sept. 2015 – 2018

Organizer of the Bhaumik Luncheon seminar, 2017–2019

Member of the executive committee of the Mani L. Bhaumik Institute for Theoretical Physics at UCLA, Summer 2016 – present

Member of the leadership committee of the Galactic Center Group, Fall 2014 – present

UCLA's Physics and Astronomy department graduate affair and academic affair committees, Sept. 2016 – 2018

Member of UCLA's Astronomy Colloquium Committee, July 2014 – present

In the ITC/CfA - Harvard:

ITC Postdoctoral Fellowship Selection Committee, Fall 2012, 2013

Member of the ITC Seminar and Colloquium and visitor committee, 2012- 2014 (chair 2013, 2014)

Co-Organizer of the ITC-Pizza lunch about Star formation and stellar dynamics, spring 2012

Member of the ITC postdoctoral fellowship selection committee, 2013, 2014

Organizer of the *Astronomy for Everyone* workshop for high schoolers with dyslexia, ADHD, and autism spectrum disorders, CfA April 2014

In CIERA - Northwestern:

Organizer of the CIERA (Northwestern) theory group meetings 2010–2011

Co-Organizer of the CIERA (Northwestern) Secular Dynamics Reading Group 2010

In Tel-Aviv University:

Organizer and founder of the Tel Aviv University Astrophysics Reading Club (reviewing important paper in the literature), 2008 - 2009

Organizer of the Tel Aviv University student seminar, 2007–2009

Tel-Aviv University Astronomy Club, outreach endeavor, 2006–2011

”BASHAAR club for youth”: giving public lectures in schools and high schools (involving lectures focused on engaging woman and minorities in science), 2006 – 2009

CONFERENCE
ORGANIZING

Co-organizer of 2022 Aspen winter conference, “Dynamical Formation of Gravitational Wave Sources,” Jan. 2022 (in person)

SOC for the Trendy 3 conference on triples, March 2021

SOC for the Division on Dynamical Astronomy *51 meeting, August 2020; 52 meeting, May 2021*

SOC for extreme solar system - *III, Nov-Dec Hawaii 2015, and IV Iceland, August 2019*

SOC for MorrisFest, September, 2019

PI of the 2016 Aspen winter conference “Dynamics and accretion at the Galactic Center”, Feb. 2016

Organizer of UCLA AstroBash - The Division of Astronomy and Astrophysics show and tell. Dec. 2015, Oct. 2016, Sept. 2017, Oct. 2018, Nov. 2019, Nov. 2020, Nov. 2021

SOC ExSoCal, September, CA 2017

LOC and SOC of the Conference for Undergraduate Women in Physics (CUWiP), UCLA, January 2017

LISA Symposium International Advisory Board, Chicago, August 2018

Co-organizer of the “Inclusive Astronomy Meeting”, June 2015, Vanderbilt University, Nashville, Tennessee (see <https://vanderbilt.irisregistration.com/Home/Site?code=InclusiveAstronomy2015>)

Co-Organizer and SOC of the CIERA (Northwestern) Inaugural conference, “The Future of Astronomy: Fellows at the Frontiers of Science,” Sept. 2011

Co-founder and co-organizer of the Israeli astrophysics and cosmology students conference series (AsCoS): AsCoS I (2008, Weizmann Institute); AsCoS II (2009, Tel Aviv university)

TEACHING

Outstanding teaching award, for Astro-286, exoplanets, *Winter 2015*, and for Phys-105A, analytical mechanics, *Winter 2016, 2019, 2020, 2021* and **teacher of the year award**, for Astro-273, Phys-105A, Phys-1B and novel contribution to student mentoring, 2015-2016 academic year, awarded by UCLA Department of Physics and Astronomy

Astro-270 Astrophysics Dynamics, UCLA (Fall 2016, Fall 2020)

Physics 105A Analytical mechanics, UCLA (Winter 2016, 2017, 2018, 2019, 2020, 2021, 2022)

Astro-273/280 Diffuse Matter in Space/Fluid dynamics in Astrophysics, UCLA (Fall 2015, 2017, 2019, 2021)

Physics 1B, electromagnetism and wave, UCLA (Spring 2015, 2016)

Astro-286 Exoplanets, Graduate course, UCLA (Winter 2015, Spring 2021)

Guest Lecture, Exoplanet Graduate course, Harvard University (Spring 2013)

Guest Lecture, EPS 351 Graduate course, Northwestern University (Spring 2011)

Guest Lecture, GR Graduate course, Northwestern University (Spring 2011)

Teaching assistant, undergraduate astrophysics course at the Tel Aviv University in the (Spring 2007)

Teaching assistant at the Hebrew University of Jerusalem responsible for the CAPA system (computerized exercise system), 2002 – 2004

Teaching assistant at the Hebrew University of Jerusalem (during my B.Sc), involving grading exercises and tutoring in the physics club, 2001

Lecturer (E&M course in the Fall semester and calculus in the Pre-academic summer program) and teaching assistant in physics and mathematics at the Jerusalem College of Engineering (I received one of the highest ratings by students at that college) 2000 – 2002

Teaching assistant in mathematics, PERAH Scholarship program, at the Hebrew University of Jerusalem, 1999-2000

OUTREACH,
DIVERSITY, EQUITY
AND INCLUSION
(SELECTED)

Career Commitment to Diversity, Equity and Inclusion Award, given by UCLA Academic Senate 2019.

Chair (and initiator) of Physics and Astronomy diversity committee, UCLA, a consolidation of the Astro-DEI committee (Spring 2016 – Fall 2020) and Physics-DEI committee (Jan. 2017 – Fall 2020), –present, (*notably: leading the formation of APS - bridge program - First cohort began on Fall 2018*)

Chair of Physics-diversity committee, UCLA, Jan. 2017 – Fall 2020 (*notably: leading the formation of APS - bridge program - First cohort began on Fall 2018*)

Member of the Physical Sciences Diversity Committee, UCLA, Summer 2016 – present

Member of the Senate Committee on Diversity, Equity, and Inclusion, Fall 2020 – present

Steering committee member (Summer 2015 – Dec. 2016) and a mentor at the Cal-bridge program since 2015

(see <http://www.cpp.edu/~sci/physics-astronomy/research/cal-bridge.shtml>)

DEI Talks/Seminars/Contributions/Organizations and Panels Participations

An organizer of multiple events that advocate for diversity equity and inclusion. These event range from departmental events (such as anxiety in Graduate School workshop, APS climate visit, Sherard Robbins from Visceral Change day visit about DEI efforts in hiring and admission, organizing mentoring workshop with Shanna Shaked, leading the monthly DiversiTea community discussion - in collaboration with Sanaea Rose - and the 11 weeks summer DiversiTea journal club - in collaboration with Alice Shapley - etc.) as well as physical division and university-wide and physical division wide events such as, Mahzarin Banaji (Harvard) implicit bias talk, and picture a scientist movie screening and discussion.

Aspen Science Center Physics Cafe, Jan. 2022

Astronomy on Tap, Zoom/Youtube Fall 2021

PEERS talk (UCLA's largest academic support program for STEM majors from underrepresented

and underserved backgrounds), April 2021

ComSciCon-LA 2021 Workshop panelist on DEI efforts, April 2021

Visceral Change Women's Leadership Panel, March, 2021

UCLA Undergraduate Research Fellows Program (URFP) panel, February, 2021

Lamat talk at Meetings of the Minds seminar series, UCSC - virtual talk, July 2020
(Lamant program is aimed at community college students in CA)

UCLA's Career Center, Academic Faculty Panel, September 2019

Plenary talk at the Conference for Undergraduate Women in Physics (CUWiP), January 2019

Panelist in the Conference for Undergraduate Women in Physics (CUWiP), January 2017, 2018, 2021

LOC of the Conference for Undergraduate Women in Physics (CUWiP), UCLA, January 2017

Co-organizer of the "Inclusive Astronomy Meeting", June 2015, Vanderbilt University, Nashville, Tennessee (see <https://vanderbilt.irisregistration.com/Home/Site?code=InclusiveAstronomy2015>)

Guest lecture in *Exploring Your Universe!* UCLA's outreach program Nov. 2014, panel and booths: 2019, 2020, 2021

Organizer of the *Astronomy for Everyone* workshop for high schoolers with dyslexia, ADHD, and autism spectrum disorders, CfA April 2014

CfA Career workshops for young people who think differently: summer workshop for young people with dyslexia, ADHD, and autism spectrum disorders, CfA, June 2013

Tel Aviv University Astronomy Club. Involving general public activities as well as writing and expanding the "Astropedia" - the Hebrew encyclopedia of space science, 2006–2011 (I continued to be an active member well within my postdoc years)

"BASHAAR club for youth": giving public lectures in schools and high schools (involving lectures focused on engaging woman and minorities in science), 2006 – 2009

An instructor in a physics lab at the "Belamonte science center for Youth" at the Hebrew University of Jerusalem, 2000 – 2001

An instructor (and activities developer) at the Bloomfield science museum in Jerusalem (which includes engaging woman and minority in science, among the regular activities), 1999 – 2002

An instructor in an after-school Astronomical curriculum activity for kids in grades 1-3 at the "Ramat-Sharet" *community center*, 1999-2000

PERAH Scholarship program for adult to complete high school diploma at the Hebrew University of Jerusalem 1999-2000

PUBLICATIONS

Total of 80 papers, 25 first author, 35 second author, more than three thousand citations, h-index=31 (ADS, Google Scholar)

†Papers led by my mentees

†Rose, S. C., **Naoz, S.**, Sari, R., Linial, I., “The Formation of Intermediate Mass Black Holes in Galactic Nuclei,” 2022, submitted to The Astrophysical Journal, ArXiv:2201.00022

†Torres, S., **Naoz, S.**, Li, G., Rose, S. C., “Raining Rocks: An analytical formulation for collision timescales in planetary systems,” 2022, submitted to The Astrophysical Journal, ArXiv:2110.02269

†Nakazato, Y., Chiaki, G., Yoshida, N., **Naoz, S.**, Lake, W., Chiou, Y., S. “H₂ cooling and gravitational collapse of supersonically induced gas objects,” 2022 submitted to The Astrophysical Journal, ArXiv:2111.10089

†Faridani, T., **Naoz, S.**, Wei, L., Farr, W. M. , “Hiding Planets Near and Far: Predicting Hidden Companions for Known Planetary Systems,” 2021 submitted to The Astrophysical Journal, Arxiv: 2107.07529

†Wei, L., **Naoz, S.**, Faridani, T., Farr, W. M. , “Relativistic Dynamical Stability Criterion of Multi-Planet Systems with a Distant Companion,” 2021 The Astrophysical Journal, 923 118

†Lake, W., **Naoz, S.**, Chiou, Y. S., Burkhardt, B., Marinacci, F., Vogelsberger M., Kremer, K. “The Supersonic Project: SIGOs, a Proposed Progenitor to Globular Clusters, and their Connections to Gravitational Wave Anisotropies,” 2021, The Astrophysical Journal, 922, 86

†Salas, J. M.; Morris, M. R.; **Naoz, S.**, “Modeling Turbulence in Galactic Centers,” 2021 The Astrophysical Journal, 161, 243

†Chiou, Y. S., **Naoz, S.**, Burkhardt, B., Marinacci, F., Vogelsberger M., “The Supersonic Project: To cool or not to cool Supersonically Induced Gas Objects (SIGOs)?,” 2021, The Astrophysical Journal, 906, 25

†Dinh, C. K.; Salas, J. M.; Morris, M. R.; **Naoz, S.**, “Effects of turbulence in the Circumnuclear Disk,” 2021, The Astrophysical Journal, 920, 79 †Wang, H.; Stephan, A. P.; **Naoz, S.**; Hoang, B.; Breivik, K. “Gravitational-Wave Signatures from Compact Object Binaries in the Galactic Center,” 2021, The Astrophysical Journal, 917, 76

†Stephan, A. P., **Naoz, S.**, Gaudi, S. B., “Giant Planets, Tiny Stars: Producing Short-Period Planets around White Dwarfs with the Eccentric Kozai-Lidov Mechanism,” 2021, The Astrophysical Journal, 922, 4

†Rose, S. C.; **Naoz, S.**; Gautam, A. K.; Ghez, A. M.; Tuan D.; Chu, D.; Becklin, E. “On Socially Distant Neighbors: Binaries to Constrain the Density of Objects in the Galactic Center,” 2020, The Astrophysical Journal, 904, 113

Hansen, B. & **Naoz, S.**, “The Stationary Points of the Hierarchical Three Body Problem,” 2020, Monthly Notices of the Royal Astronomical Society 499, 1682

Martinez, M. A. S.; Fragione, G.; Kremer, K.; Chatterjee, S.; Rodriguez, C. L.; Samsing, J.; Ye, C. S.; Weatherford, N. C.; Zevin, M.; Naoz, **Naoz, S.**, Rasio, F. A., “Black Hole Mergers from Hierarchical Triples in Dense Star Clusters,” 2020 accepted to The Astrophysical Journal, 903, 67.

†Hoang, B.; **Naoz, S.**; Kremer, K. “Neutron Star-Black Hole Mergers from Gravitational Wave Captures,” 2020 The Astrophysical Journal, 903, 8

- †Deme, B.; Hoang, B.; **Naoz, S.**; Kocsis B., “Detecting Kozai-Lidov imprints on the gravitational waves of intermediate-mass black holes in galactic nuclei,” 2020, *The Astrophysical Journal*, 901, 125
- Fragione, G.; Martinez, M. A. S.; Kremer, K.; Chatterjee, S.; Rodriguez, C. L.; Ye, C. S.; Weatherford, N. C.; **Naoz, S.**; Rasio, F. A., “Demographics of triple systems in dense star clusters,” 2020 *The Astrophysical Journal*, 900, 16
- Naoz, S.**, Will, C. M., Ramirez-Ruiz, E., Hees, A., Ghez, A. M., Do, T., “A Hidden Friend for the Galactic Center Black Hole, Sgr A*,” 2020 *The Astrophysical Journal–Letters*, 888, 8
- Ciurlo, A., Campbell, R. D., Morris, M. R.; Do, T., Ghez, A. M., Hees, A., Sitarski, B. N., Kosmo O’Neil, K., Chu, D. S., Martinez, G. D., **Naoz, S.**, Stephan, A. P., “A population of dust-enshrouded objects orbiting the Galactic black hole,” 2020, *Nature*, 577, 337
- †Stephan, A. P., **Naoz, S.**, Gaudi, S. B., Salas, J. M., “Eating Planets for Lunch and Dinner: Signatures of Planet Consumption by Evolving Stars,” 2020, *The Astrophysical Journal* 889, 45
- †Cheng, S. J., Vinson, A., M., **Naoz, S.**, “Interacting young M-dwarfs in triple system - Par 1802 binary system case study,” 2019, *Monthly Notices of the Royal Astronomical Society*, 489 2298
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