

CURRICULUM VITAE

Smadar Naoz

September 2020

CONTACT INFORMATION

University of California Los Angeles,
Department of Physics & Astronomy
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Los Angeles, CA 90095

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RESEARCH INTERESTS

Dynamics of planetary, stellar and black hole systems, which include formation of Hot Jupiters, globular clusters, spiral structure, compact objects etc. Cosmology, structure formation in the early Universe, reionization and 21cm fluctuations.

EDUCATION

Tel Aviv University, Tel Aviv, Israel

Ph.D. in Physics, January 2010, Advisor: Rennan Barkana

Hebrew University of Jerusalem, Jerusalem, Israel

M.S. in Physics, Magna Cum Laude, 2004, Advisor: Nir J. Shaviv

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

Gruber Fellow, *September 2010 – August 2011*

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, Signatures of Life in the Universe, 2020 (*the conference postpone 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.

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 2015-2019, 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 Institute 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

Graduate Students

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

Jesus Salas, April 2016 – present

Bao Minh Hoang, September 2016 – present

Former Graduate Students

Yeou Chiou, January 2017 – August 2020 (graduated!)

Alexander P. Stephan, August 2014 – August 2020 (graduated!)

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

Cuc Dinh Winter 2020 –present

Melodie Sloneker Winter 2020 –present

Eric Zhang Summer 2019 – present

Cheryl Wang Summer 2019 – present

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 at Cornell.
Leah A. Iasaman, REU, June – August 2011
Bradley Solomon, REU, June – August 2010

CONFERENCE
PARTICIPATION
(SELECTED)

“American Astronomical Society 237,” Virtual meeting, January, 2021, (Helen B. Warner Award plenary talk - planned)

“American Physical Society, The Far West Section,” Virtual meeting, October 2020 (invited plenary talk - planned)

KITP program “Probing Effective Field Theories of Gravity in Strong Fields and Cosmology,” 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, special session on DEI chair, 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)

“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)

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

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

COLLOQUIA AND
SEMINARS
(SELECTED) -
CONTINUES

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 – present

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 – present

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

NASA review panels: ATP review panel, Fall 2013, Fall 2016, and proposal reviewer for the NASA Fall 2011, NASA emerging world proposal reviewer Summer 2018, NASA TCAN, Summer 2020

HST review panel, Spring 2016

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

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

* 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

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)

Physics Comprehensive exam reform committee 2019/20

Physics Bridge admission committee 2018, 2019, 2020

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

SOC for the 'Division on Dynamical Astronomy 51 meeting, August 2020.

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

SOC ExSoCal, September, CA 2017

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

2017

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

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* 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)

Astro-273 Diffuse Matter in Space, UCLA (Fall 2015, 2017, 2019)

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

Astro-286 Exoplanets, Graduate course, UCLA (winter 2015)

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 Diversity, Equity and Inclusion Award, given by UCLA Academic Senate *2019*.

UCLA Department of Physics and Astronomy contribution for diversity award, given as recognition for efforts to diversity and inclusion, *2017, 2018*

Chair of Physics and Astronomy diversity committee, UCLA, Fall 2020 – present (a consolidation of the two committees below)

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

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

Initiator and Chair of the Astronomy diversity committee, Spring 2016 – present

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

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.

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

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

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

Plenary talk at the Conference for Undergraduate Women in Physics (CUWiP), January 2018

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>)

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 2014!* UCLA's outreach program Nov. 2014

(see <http://www.astro.ucla.edu/~outreach/eyu2014>)

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 68 papers, 25 first author, 28 second author, more than three thousand citations, h-index=28 (ADS, Google Scholar)

†Papers led by my mentees

†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, submitted to The Astrophysical Journal, arXiv:2008.06512

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

†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, accepted to Monthly Notices of the Royal Astronomical Society

†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)?,” 2020, submitted to The Astrophysical Journal

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 accepted to The Astrophysical Journal

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

Naoz, S., Silk, J., Schnittman, J. D. “Dark Matter Signatures of Supermassive Black Hole Binaries,” 2019, The Astrophysical Journal–Letters, 885, 35

Tuan, D.,...**Naoz, S.**, et al. “ Relativistic redshift of the star S0-2 orbiting the Galactic Center supermassive black hole,” 2019, Science, 365, 664

†Chiou, Y. S., **Naoz, S.**, Burkhardt, B., Marinacci, F., Vogelsberger M., “The Supersonic Project: Shining Light on SIGOs - a New Formation Channel for Globular Clusters,” 2019, The Astrophysical Journal – Letters, 878, 23

†Salas, J. M., **Naoz, S.** Morris, M. R., Stephan, A. P., “Unseen companions of V Hya inferred from periodic ejections,” 2019, Monthly Notices of the Royal Astronomical Society, 487, 3029

†Rose, S. C., **Naoz, S.**, Geller, A. M., “Companion-driven evolution of massive stellar binaries,” 2019, Monthly Notices of the Royal Astronomical Society, .488, 2480

†Stephan, A. P., **Naoz, S.**, Ghez, A. M., Morris, M. R., Ciurlo, A., Do, T., Breivik, K., Coughlin,

S., Rodriguez, C. L., “The Fate of Binaries in the Galactic Center: The Mundane and the Exotic,” 2019, *The Astrophysical Journal*, 878, 58 *featured in AAS NOVA*

†Hoang, BM, **Naoz, S.**, Kocsis, B., Farr, W. M., McIver, J. “Detecting Supermassive Black Hole–induced Binary Eccentricity Oscillations with LISA,” 2019, *The Astrophysical Journal – Letters*, 875, 31

†Lu, C. X. & **Naoz, S.** “Supernovae Kicks in Hierarchical Triple Systems,” 2019, *Monthly Notices of the Royal Astronomical Society*, 484, 1506

†Denham, P., **Naoz, S.**, Hoang, BM., Stephan, A. P., Farr, W. M., “Hidden Planetary Friends: On the Stability Of 2-Planet Systems in the Presence of a Distant, Inclined Companion,” 2019, *Monthly Notices of the Royal Astronomical Society*, 482, 4146

de Elía, G. C.; Zanardi, M.; Dugaro, A.; **Naoz, S.** “Inverse Lidov-Kozai resonance for an outer test particle due to an eccentric perturber,” 2019, *Astronomy and Astrophysics*, 627, 17

†Chiou, Y. S., **Naoz, S.**, Marinacci, F., Vogelsberger M., “The Supersonic Project: rotational effects of supersonic motions on the first structures in the Universe,” 2018, *Monthly Notices of the Royal Astronomical Society*, 481, 3108

†Stephan, A. P., **Naoz, S.**, Gaudi, S. B., “A-type Stars, the Destroyers of Worlds: The lives and deaths of Jupiters in evolving stellar binaries,” 2018, *The Astronomical Journal*, 156, 128

Naoz, S., Ghez, A. M., Hees, A., Do, T., Witzel, G., Lu, J. R., “Confusing binaries: the role of stellar binaries in biasing disk properties in the Galactic Center,” 2018, *The Astrophysical Journal – Letters*, 853, 24

†Qureshi, A., **Naoz, S.**, Shkolnik, E., “Signature of Planetary Mergers on Stellar Spins,” 2018, *The Astrophysical Journal*, 864, 65

Zanardi, M. de Ela, G. C., Di Sisto, R. P., **Naoz, S.**, “The role of the general relativity on icy body reservoirs under the effects of an inner eccentric Jupiter,” 2018, *Astronomy and Astrophysics*, 615, 21

†Hoang, BM., **Naoz, S.**, Kocsis, B., Rasio, F. A., Dosopoulou, F., “Black Hole Mergers in Galactic Nuclei Induced by the Eccentric Kozai-Lidov Effect,” 2018, *The Astrophysical Journal*, 856, 140

Topping, M. W., Shapley, A. E., Steidel, C. C., **Naoz, S.**, Primack, J. R., “Understanding sub-structure in the SSA22 protocluster region using cosmological simulations,” 2018, *The Astrophysical Journal*, 852, 134

Chu, D. S., Do, T., Hees, A., Ghez, A. M., **Naoz, S.**, Witzel, G., Sakai, S., Chappell, S., Gautam, A. K., Lu, J. R.; Matthews, K., “Investigating the Binarity of S0-2: Implications for its Origins and Robustness as a Probe of the Laws of Gravity around a Supermassive Black Hole,” 2018, *The Astrophysical Journal*, 854, 12

†Li, G., Ginsburg, I., **Naoz, S.**, Loeb, A., “Eclipsing Stellar Binaries in the Galactic Center,” 2017 *The Astrophysical Journal*, 851, 131

†Dosopoulou, F., **Naoz, S.**, Kalogera, V., “Roche-lobe overflow in eccentric planet-star systems,” 2017, *The Astrophysical Journal*, 844, 12

†Stephan, A. P., **Naoz, S.**, Zuckerman, B., “Throwing Icebergs at White Dwarfs,” 2017, *The*

Astrophysical Journal – Letters, 844, 16 *featured in AAS NOVA*

Naoz, S., Li, Zanardi, M. de Ela, G. C., Di Sisto, R. P., “The Eccentric Kozai-Lidov mechanism for Outer Test Particle,” 2017, *The Astronomical Journal*, 154, 18

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