



CURRICULUM VITAE

Joshua Tan

RECOMMENDATION FOR PROMOTION

Assoc. Professor
2017

Natural Sciences
\$100,329

I. HIGHER EDUCATION

A. DEGREES

Institution	Dates Attended	Degree & Major	Date Conferred
Columbia University	2007-2014	PhD Astronomy	2014
University of Colorado	2004-2005	MA Astrophysics and Planetary Sciences	2005
Princeton University	1999-2003	AB Astrophysical Sciences	2003

B. ADDITIONAL HIGHER EDUCATION and/or EDUCATION IN PROGRESS

Institution	Dates	Degree or Certificate & Major	(Expected) Date Conferred
Roosevelt University	2008	Cert. Instr. in Community College Education	2008
Princeton University	2003	Cert. in Teaching	2003

II. EXPERIENCE

A. TEACHING EXPERIENCE

Institution	Department	Rank	Dates
LaGuardia Community College	Natural Science	Associate Professor	2023-
LaGuardia Community College	Natural Science	Assistant Professor	2017-2023
St. Lawrence University	Physics	Visiting Assistant Professor	2014-2015
Harvard University	Astronomy	Teaching Fellow	2013-2016
Harold Washington College	Physical Sciences	Instructor	2006-2008

B. OTHER EXPERIENCE

Institution	Department	Rank or title role	Dates
Pontificia Universidad Católica de Chile	Instituto de Astrofísica	Postdoctoral Researcher	2014-2017

III. ACADEMIC AND PROFESSIONAL HONORS

IV. PUBLICATIONS/CREATIVE WORKS

A. REFEREED PUBLICATIONS/CREATIVE WORKS, PERFORMED OR EXHIBITED

(Peer-reviewed works)

Publication Title (* indicate student co-authors)	Publisher/Venue	Date
Henry, O., T. Paglione, Y. Song, J. Tan , D. Zurek, V. Pinto. "A gamma-ray stacking survey of Fermi-LAT undetected globular clusters"	Monthly Notices of the Royal Astronomical Society, 535, Issue 1, doi:10.1093/mnras/stae2402	2024
Jacob, J., I. Veras, O. Calderon, H. A. Porter-Morgan, J. Tan , H. E. Aguilar*, W. T. Elkins*, V. P. Martinez Castro*, V. Fulton*, W. K. Yousri*. "Diversity of Bacteria in Aerosols and Foams as a Result of Aeration Remediation in a Polluted Urban Waterway"	Folia Microbiologica 69, 235–246 (2024). doi:10.1007/s12223-023-01096-2	2024
Song, Y. R., T. Paglione, J. Tan , C. Lee-Georgescu*, D. Herrera. "A stacking survey of gamma-ray pulsars."	Monthly Notices of the Royal Astronomical Society 524, 4. doi:10.1093/mnras/stad2217	2023
McDermott, I., J. Tan , A. Khoule, M. Kowalczyk, E. Handte, R. Grossman. "Implementing OER at LaGuardia Community College: Three Case Studies".	Journal of Interactive Technology and Pedagogy, no. 21.	2022
Pearson, K. A., C. Beichman, B. J. Fulton, D. Gallego*, J. Tan , et al. "Utilizing a Global Network of Telescopes to Update the Ephemeris for the Highly Eccentric Planet HD 80606 b and to Ensure the Efficient Scheduling of JWST".	The Astronomical Journal 164, 178. doi:10.3847/1538-3881/ac8dee	2022
Tasker, E., J. Tan , K. Heng, S. Kane, D. Spiegel & the ELSI Origins Network Planetary Diversity Workshop. "The language of exoplanet ranking metrics needs to change".	Nature Astronomy Volume 1, id. 0042, doi:10.1038/s41550-017-0042	2017

Publication Title (* indicate student co-authors)	Publisher/Venue	Date
Diniega, S., J. Tan , M. S. Tiscareno, and E. Wehner. "Senior scientists must engage in the fight against harassment".	<i>Eos</i> 97, doi:10.1029/2016EO058767.	2016
Schroeder, J. , Halpern, J. "Observations and modeling of the companions of short period binary millisecond pulsars: Evidence for high-mass neutron stars".	<i>Astrophysical Journal</i> 793:2, 78. doi:10.1088/0004-637X/793/2/78	2014
Schroeder, J. ; Mesinger, A.; Haiman, Z. "Evidence of Gunn-Peterson damping wings in high-z quasar spectra: strengthening the case for incomplete reionization at $z \sim 6-7$ ".	Monthly Notices of the Royal Astronomical Society 428:4, 3058-3071. https://doi.org/10.1093/mnras/sts253	2013

B. OTHER PUBLICATIONS/CREATIVE WORKS, PERFORMED OR EXHIBITED

(Non-peer-reviewed works)

Title	Publisher/Venue	Date
"AAS Education Committee Updates"	<i>American Astronomical Society</i> AAS Meeting 245, id. 304.02.	2025
"AAS Education Committee Updates"	<i>American Astronomical Society</i> AAS Meeting 244, id. 201.07.	2024
"A Stacking Survey of Gamma-ray Pulsars"	<i>American Astronomical Society</i> AAS Meeting 241, id. 209.10	2023
"Gamma Rays in Globular Clusters"	<i>American Astronomical Society</i> AAS Meeting 241, id. 209.11.	2023
"Brief of Amici Curiae Individual Scientists in support of Respondents, Students for Fair Admissions Inc. vs. University of North Carolina et al."	Supreme Court of the United States 20-1199 & 21-707	2022
"Using Open Educational Resource Assessments in Astronomy Education."	<i>American Astronomical Society</i> Education Blog	2022
"A Large Population of Sub-threshold Gamma-ray Pulsars"	AAS High Energy Astrophysics Division meeting #19, id. 110.09. Bulletin of the American Astronomical Society, Vol. 54, No. 3	2022
"A Free Open-Access Astronomy Homework and Virtual Lab System"	<i>ASP 2021: Sharing Best Practices - Astronomy Teaching and Public Engagement</i> ASP Conference Series Astronomical Society of the Pacific.	2022

Title	Publisher/Venue	Date
"An Autograded, Open Educational Resource Assessment Tool for Astronomy Using MyOpenMath."	<i>Embracing The Future: Astronomy Teaching And Public Engagement ASP Conference Series</i> Astronomical Society of the Pacific.	2021
"A Large Population Of Sub-threshold Gamma-ray Pulsars"	<i>American Astronomical Society</i> AAS Meeting 238: 128.02.	2021
"Gamma-Rays from Globular Clusters"	<i>American Astronomical Society</i> AAS Meeting 237: 130.02.	2021
"Using Remote Observing for Undergraduate Astronomical Research"	American Astronomical Society meeting 235:367.08	2020
"AstroCom NYC: A Partnership between New York City Astronomers"	American Astronomical Society meeting 235:368.09	2020
Consciousness Live! with Prof. Richard Brown	YouTube	2019
<i>Wait...Maybe the Hippies Weren't Right</i>	Scientific American	2018
"Until we get better tools, excited reports of 'habitable planets' need to come back down to Earth".	<i>The Conversation.</i>	2017
"Astronomy Education at Small Institutions."	<i>AAS Education White Paper</i>	2016
"On Chilean Astronomy and Observatory Conflicts."	<i>Guest post in Prof. John Johnson's MAHALO.NE.TRASH conversations about astronomy and social justice</i>	2015

V. UNPUBLISHED WORK

(Supported by evidence, including unpublished PhD or Master's Thesis)

A. WORKS ACCEPTED FOR PUBLICATION/EXHIBITION/PRODUCTION

B. WORKS SUBMITTED FOR PUBLICATION, EXHIBITION or PRODUCTION

Title	Publisher/Venue	Date of Submission
Song, Y., Stevenson, S., Chattopadhyay, D., Tan, J. , and Paglione, T. A. D. "Binary population synthesis of the Galactic canonical pulsar population"	<i>Publications of the Astronomical Society of Australia</i>	2025

VI. GRANTS AND SPONSORED PROGRAMS

A. External

Name of Grant	Funding Agency	Dollar Amount (direct costs/total)	Award Period (<u>underline</u> current awards)	Role (PI, Co-PI)
CUNYAstro MS	Simons Foundation	\$30K	<u>2024-2026</u>	Co-PI
NY Space Grant	NASA	\$12K	<u>2022-2023</u>	PI
AstroCom NYC	Simons Foundation	\$59K (\$10 K for La-Guardia)	<u>2022-2026</u>	Co-PI
NSF PAARE	NSF	\$27K (\$10K for La-Guardia)	2018-2021	Co-PI

B. Internal (CUNY or PSC)

Name of Grant	Funding Agency	Dollar Amount (direct costs/total)	Award Period (<u>underline</u> current awards)	Role (PI, Co-PI)
CUNY OEI	CUNY	\$6000	<u>2025</u>	Awardee
CUNY SI Fellowship	CUNY	\$96,000	<u>2024-2025</u>	Fellow
CUNY OER	CUNY	\$25,500	2023-2024	Co-PI
FFPP	CUNY	\$4500	2022-2023	Awardee
CUNY OER	CUNY	\$11,500	2022-2023	PI,Co-PI
PSC-CUNY	CUNY	\$3000	2022-2023	PI
EDIT Grant	LaGuardia	\$800	2022-2022	PI
CUNY OER	CUNY	\$500	2021-2022	Co-PI
CUNY OER Library Seminar	CUNY	\$2500	<u>2021-2025</u>	Co-PI
CTL Seminar Leader	LaGuardia CTL	\$1500	2021-2021, <u>2024-2025</u>	Co-PI
CUNY OER Library Seminar	CUNY	\$500	2021-2021	Co-PI
CUNY OER	CUNY	\$1500	2020-2021	Co-PI
CUNY OER	CUNY	\$3000	2019-2020	Co-PI
CTL MiniGrant	LaGuardia CTL	\$5000	2018	Co-PI
CUNY OER CS101	CUNY	\$1500	2018	Co-PI
CUNY OER	CUNY	\$10000	2018-2019	PI

VII. CONFERENCE PRESENTATIONS AND INVITED LECTURES

(Indicate invited lectures/presentations with *)

Title of Presentation/Lecture	Name and Location of Conference/Lecture	Date
Life in the Universe.*	Western Colorado Astronomical Society	Mar. 2025
Guest Lecture: Perspectives on Time: How to Make Sense of its Differing Magnitudes in the Context of Climate Change.*	Vassar College Environmental Imagination Seminar	Sep. 2024
Our Galaxy Was a Quasar.*	Western Colorado Astronomical Society	Jun. 2024
Our Galaxy Was a Quasar.*	Westport, CT Astronomical Society	Feb. 2023
Guest Lecture: Perspectives on Time: How to Make Sense of its Differing Magnitudes in the Context of Climate Change.*	Vassar College Environmental Imagination Seminar	Jan. 2021
Companions to Millisecond Pulsars*	Amateur Astronomy Association of New York	Feb. 2020
Living With A Pulsar*	Westport, CT Astronomical Society	Dec. 2019
Life in the Universe	Columbia University Outreach Lecture	Oct. 2019
Binary Millisecond Pulsars	AstroFest NYU	Sep. 2019
Life in the Universe*	Westport, CT Astronomical Society	Mar. 2019
Small Telescopes for Astronomical Research	AstroFest NYU	Sep. 2018
Short Period Binary Millisecond Pulsars	ASNY AMNG	June 2018

VIII. SERVICE

A. COLLEGE SERVICE

Name of Committee or Project	Type of Service	Role (i.e. Chair)	Dates
Course coordinator, SCP 140: Topics in Astronomy	Departmental	Substitute Coordinator	2023-2024
College Online Learning Committee	College-wide	Co-Chair	2023-
College Online Learning Committee	College-wide	Member	2021-2023
College Senate Internet & Technology Committee	College-wide	Member	2020-
WID CTL Seminar	College-wide	Leader	2024-
OER CTL Seminar	College-wide	Leader	2020-

Name of Committee or Project	Type of Service	Role (i.e. Chair)	Dates
Department On-line/Hybrid/OER Committee	Departmental	Chair	2020-
Course coordinator, SCP 105: Life in the Universe	Departmental	Coordinator	2019-
Liberal Arts & Science Assessment Committee	Committee	College-wide	2019-2020
2019 SCP 105 MiniGrant	Departmental	Leader	Spring 2019

B. UNIVERSITY SERVICE

Name of Committee or Project	Type of Service	Role (i.e. Member)	Dates
CUNYAstro Community Committee	Program	Member	2021-
PSC-CUNY Grants Review	University-wide	Member	2020-2021, 2022-
CUNYAstro	University-wide	Member	2019 -

C. COMMUNITY SERVICE

Include public service to the NYC community beyond the campus (e.g. mentoring of local high school students) and service to the community of your discipline (e.g. journal reviewing/editing, conference organizing)

Name of Committee or Project	Type of Service	Role	Dates
GrowNYC	Project	Volunteer	2017-2019

IX. MEMBERSHIP IN PROFESSIONAL SOCIETIES

Name of Professional Organization	Membership Role (i.e. Board)	Dates
American Association of Variable Star Observers	Member	2022-
Astronomical Society of the Pacific	Member	2020-
American Astronomical Society	Member	2014-2024
American Astronomical Society	Education Subcommittee Chair	2024-2025

X. OTHER NOTABLE ACCOMPLISHMENTS

DATE SUBMITTED

April 3, 2025