

Anton Pannekoek Institute for Astronomy University of Amsterdam Science Park 904 1098 XH Amsterdam, Netherlands a.lattimer@uva.nl aslattimer.com https://github.com/ASLattimer

EMPLOYMENT

Oct. 2024 - <i>present</i>	. Postdoctoral Researcher, A	Anton Pannekoek Institute for Astronomy	, University of Am-
	sterdam		

EDUCATION

Aug. 2017 - Aug. 2024 Ph.D. Astrophysical & Planetary Science, University of Colorado - Boulder
Dissertation: Calculations & Impacts of the Spectral Line-Driving Radiation
Force in Various Astrophysical Environments, Advisor: Dr. Steven Cranmer

Aug. 2017 - Dec. 2019 Nr.S. Astrophysics, University of Colorado - Boulder
Thesis: A Twenty-First Century Atomic Database for Line-Driven Outflows in a
Variety of Astrophysical Environments, Advisor: Dr. Steven Cranmer

Aug. 2012 - May 2016 B.S. Physics, University of Missouri (summa cum laude)
Senior Honors Thesis: The Effect of Chemical Abundance on Dust Formation:
Stellar Nucleosynthesis vs. Metallicity, Advisor: Dr. Angela Speck

Aug. 2012 - May 2016	B.A. German Studies.	University of Missouri	(summa cum laude)
			(

Jan. 2015 - May 2016 Undergraduate Research Mentorship Program, University of Missouri

Aug. 2012 - May 2016 Minor in Mathematics, University of Missouri

Aug. 2012 - May 2016 Multicultural Studies Certificate, University of Missouri

GRANTS

Sept. 2022 - Sept. 2023 FI (Future Investigator), Future Investigators in NASA Earth and Space Science and Technology (FINESST)

Expanding the Spectral Database: An Updated Formalism for Line-Driven Winds and Consequences for Stellar and Quasar Outflows

PEER-REVIEWED PUBLICATIONS

June 2024	Lattimer, A. S. & Cranmer, S.R. 2024, ApJ, 968 61, A Self-Consistent Treatment of the
	Line-Driving Radiation Force for Active Galactic Nuclei Outflows: New Prescriptions
	for Simulations

March 2021 Lattimer, A. S. & Cranmer, S. R. 2021, ApJ, 910, 48, An Updated Formalism for Line-driven Radiative Acceleration and Implications for Stellar Mass Loss

TALKS, CODE, & OTHER PUBLICATIONS

March 2024	Lattimer, A. S. 2024a, FLOWR, 2.0, Zenodo, doi: 10.5281/zenodo.10846556
March 2024	Lattimer, A. S. AGNwind, 1.0, Zenodo, doi: 10.5281/zenodo.10846554
Feb. 2024	Lattimer, A. S. & Cranmer, S., 2024, AAS, A Self-Consistent Treatment of the Spectral Line-Driving Radiation Force for Active Galactic Nuclei: Consequences on Ionization and Outflow Strength (Research Contributed Talk)
March 2023	Lattimer, A. S. & Cranmer, S.R., 2023, Proceedings of the International Astronomical Union, Symposium S378: Black Hole Winds at All Scales, <i>Updated Calculations of the Spectral-Line Radiation Force & Mass-Loss Rates for AGN Outflows</i> (Research Contributed Talk & Conference Proceeding)
January 2023	Lattimer A S & Cranmer S 2023 AAS Going with the Flows: Undated Calcu-

January 2023 Lattimer, A. S. & Cranmer, S., 2023, AAS, Going with the Flows: Updated Calculations of the Spectral-Line Radiation Force for Stellar & AGN Outflows (Research Contributed Talk)

January 2021	Lattimer, A. S. & Cranmer, S. 2021, AAS, An Updated Formalism for Line-Driven
	Outflows and Consequences for Mass Loss (Research Contributed Talk)
January 2020	Lattimer, A. S. & Cranmer, S. 2020, AAS. A New Atomic Database for Line-Driven
	Outflows in a Variety of Astrophysical Environments (Poster)

TEACHING EXPERIENCE

Lab TA duties include: Unassisted teaching and grading of up to two lab sections each week, holding weekly office hours, and grading class exams.

Lecture TA duties include: giving guest lectures, proctoring exams, holding weekly office hours, grading homework and exams, and managing course Canvas page, including grades and due dates.

Recitation TA duties include: Writing and teaching weekly recitations covering both review and new material, weekly office hours, grading, & managing course Canvas pages.

Nov. 8, 2024 Extreme Astrophysics, University of Amsterdam - Guest Lecture	
Jan May 2024 CU ASTR 1030: Accelerated Introductory Astronomy I - Lab & lectur	e TA
Sept Dec. 2023 CU ASTR 2040: The Search for Life in the Universe - Lecture TA	
Jan May 2022 CU ASTR 1200: Stars & Galaxies - Lecture TA	
Sept Dec. 2021 CU ASTR 2030: Black Holes - Lecture & Recitation TA	
Jan May 2021 CU ASTR 1200: Stars & Galaxies - Lecture TA CU ASTR 2010: Modern Cosmology - Lecture & Recitation TA	
Jan May 2019 CU ASTR 1040: Accelerated Introductory Astronomy II - Recitation T	ľΑ
Aug Dec. 2018 CU ASTR 1010: Introductory Astronomy I - Lab TA	
Jan May 2018	
Aug Dec. 2017 CU ASTR 1030: Accelerated Introductory Astronomy I - Lab TA	

HONORS & AWARDS

2023	Chance Irick Cooke Endowed Fellowship, 2023
2021	J. Tour Scholarship in Arts and Sciences, 2021
2016	University Honors, University of Missouri, 2016
2016	General Honors, University of Missouri, 2016
2012 - 2016	Curators' Scholar Award, 4 annual awards, 2012-2016
2012 - 2016	Dean's List, College of Arts and Science, 2012-2016
2015	Clifford W. Tompson Scholarship, 2015
2014	Ernest Landon Fellowship, 2014
2013	Gingrich Astronomy Scholarship, 2013

SKILLS & LANGUAGES

English	Native
German	Proficient, 4 years study
Spanish	Intermediate, 3 years study
Python	Proficient, extensive experience
IDL	Basic, moderate experience
Julia	Beginner, some experience
C/C++	Reginner

SOCIETIES & OUTREACH
2025 - present
2023 - 2024 Association for Women in Science
2023 - 2024 Outreach and Development Committee Organized professional development & networking events, determined departmental funding goals
2022 - 2023 Faculty Committee Graduate student representative in twice-monthly department faculty meetings
Dec. 8, 2021 AAS Journal Author Series https://www.youtube.com/watch?v=gWo5zuEQTJQ
2019 - 2022 Social & Planning Committee Planned intradepartmental activities Planned & executed departmental prospective graduate student visits
2020 - 2021
2019 - 2020
2019 - present American Astronomical Society
2016 - present Phi Beta Kappa
2013 - present National Society of Collegiate Scholars
2011 - present National Honor Society