CURRICULUM VITAE FOR MICHAEL J. PERSON

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Education

Post-doctoral Training, Massachusetts Institute of Technology, 2008
Ph. D., Planetary Sciences, Massachusetts Institute of Technology, 2006
S. M., Earth, Atmospheric, and Planetary Sciences, MIT, 2001
S. B., Physics, MIT, 1994

Research Interests

Observational astronomy, focusing on the techniques needed to observe stellar occultations, eclipses, and transits. (Especially high-precision astrometry and high-time-resolution photometry.)

Identifying and characterizing the atmospheres, compositions, and figures of solar system bodies, including specifically Triton, Pluto, KBOs, Centaurs, and Near-Earth Asteroids.

Appointments

Massachusetts Institute of Technology, Cambridge, MA

Senior Lecturer, Earth, Atmospheric, and Planetary Sciences (2023-present)
Director, Wallace Astrophysical Observatory (2013-present)
Research Scientist, Planetary Astronomy Lab (2008-present)
Lecturer, Earth, Atmospheric, and Planetary Sciences (2021-2023)
Instructor, Earth, Atmospheric and Planetary Sciences
12.410 (2015, 2019, 2020), 12.409 (2008, 2016-2020)
Associate Director, Wallace Astrophysical Observatory (2010-2013)
(Acting Director 2011-2013*)*
Postdoctoral Research Associate, Planetary Astronomy Lab (2006-2008)
Graduate Student (Research Assistant and Teaching Assistant), Ph.D. Program, (2001-2006)
Graduate Student (RA and TA), Master's Program, (1999-2001)
Research Associate, Planetary Astronomy Lab (1995-1999)
Technical Assistant, Plasma Fusion Center (1992-1993)

Lowell Observatory, Flagstaff, AZ

Research Assistant and Observer, Perkins Telescope (1994-1995)

Awards

Royal Astronomical Society of New Zealand – Beatrice Hill Tinsley Lecturer (2016)
North Colonie Central Schools – Alumni Hall of Fame Inductee (2016)
Massachusetts Institute of Technology – Excellence Award (2009) *Citation at end.*
MIT Dept. of EAPS – Graduate Student Teaching Award (2004)
MIT – Presidential Fellowship (2001)

Awarded Research Grants

Principal Investigator, USRA SOFIA to MIT, 2011-2014, 2016-2020
Principal Investigator, NASA Planetary Astronomy to MIT, 2011-2017
Co-Investigator, NASA SSO to Planetary Science Institute, 2021-2026
Co-Investigator, NASA NFDAP to Southwest Research Institute, 2020-2025
Co-Investigator, NASA SMD Education to California Institute of Tech., 2016-2019
Co-Investigator, NASA Planetary Astronomy to MIT, 2010-2011
Co-Investigator, USRA SOFIA to MIT, 2007-2010
Co-Investigator, NASA Planetary Atmospheres to MIT, 2008-2013 (PI as of 2011)
Co-Investigator, NSF Planetary Astronomy to MIT, 2007-2013 (PI as of 2011)
Collaborator, NASA Planetary Astronomy to Lowell Observatory 2013-2021
Collaborator, NASA Planetary Astronomy to Williams College, 2008-2017
Collaborator, NASA SSS to Planetary Science Institute, 2026-2029
Collaborator, NASA SSO to Langley Research Center, 2025-2026

Professional Societies

American Astronomical Society (AAS)
Division of Planetary Sciences (DPS)
Society of Catholic Scientists (SCS)
International Occultation Timing Association (IOTA)
Union of Concerned Scientists (UCS)
Dark Sky International (IDA) (*Massachusetts Chapter Officer 2018 - present*)

Other Professional Activities

Infrared Science Archive (IRSA) User Panel, 2014-2019
Mission-Accessible Near-Earth Object Survey (MANOS) Team Member, 2013-2019
NASA Planetary Astronomy Grant Review Panels, 2012, 2018
Numerous Paper Peer Reviews: *Nature; Science; Astronomy and Astrophysics; The Astronomical Journal; Earth, Moon, and Planets; Icarus; Planetary Science Journal; TAAR*

Invited Lectures

16 September 2023, "*Pluto and Triton: Airborne Astronomy*," Astronomical Society of New Haven – 33rd Connecticut Star Party, Goshen, CT

28 July 2020, "*Airborne Astronomy and Stellar Occultation*," SOFIA Instrument RoadMap Workshop Series – Virtual due to COVID19

3 October 2017, "*Triton: from the Ground, in Space, and in the Air*," Embry-Riddle Aeronautical University – Physical Sciences Department Colloquium Series, Daytona, FL

3 October 2017, "*Pluto: What We Know*," Embry-Riddle Aeronautical University – Guest Lecturer for Introductory Astronomy, Daytona, FL

28 September 2016, "*Airborne Astronomy from SOFIA*," Haystack Observatory Colloquia Series, Westford, MA

3 July 2016 – 17 July 2016, "*Pluto: Then and Now*," Royal Astronomical Society of New Zealand, Beatrice Hill Tinsley Lecture Series. (9 lectures in 8 NZ cities)

06 May 2016, "*Chasing Pluto's Shadow in the Great Southern Ocean*," Amateur Astronomical Society of Rhode Island, Scituate, RI

23 March 2016, "*Pluto's Atmosphere from SOFIA*," SOFIA Science Colloquium, NASA Ames, Moffett Field, Mountain View, CA

07 January 2016, "*Pluto's Atmosphere from the 29 June 2015 Occultation: SOFIA Results*," American Astronomical Society 227th Meeting, Kissimmee, FL

02 October 2015, "*Occultation Observations of Pluto from the Ground and in the Air,"* Williams College Astrophysics Colloquium, Williamstown, MA

24 July 2014, "*Pluto's Atmosphere*," Institute of Astrophysics at the Pontificia Universidad Catolica de Chile, Santiago, Chile

08 March 2013, "*The MIT Pluto Occultation Program,*" Williams College Astrophysics Colloquium, Williamstown, MA

15 August 2012, "*Recent Occultation Studies,*" Haystack Observatory Colloquia Series, Westford, MA

14 February 2011, *"Occultation Studies of the Outer Solar System,"* Boston University Astrophysical Colloquia Series, Boston, MA

12 November 2009, "*Kuiper Belt Occultation Research,*" Amateur Telescope Makers of Boston, Cambridge, MA

24 September 2008, *"Probing Small Bodies in the Outer Solar System with Stellar Occultations,"* European Planetary Science Congress, Münster, Germany

25 August 2001, "*The 2001 Stellar Occultation by Triton*," South Africa Astronomical Observatory Colloquia Series, Cape Town, South Africa

Publications

I. Theses

3) "*The Use of Stellar Occultations to Study the Figures and Atmospheres of Small Bodies in the Outer Solar System*," by **M. J. Person**, Ph. D. in Planetary Sciences, MIT, Cambridge, MA (2006).

2) "*The Non-Sphericity of Triton's Atmosphere as Evidenced by Stellar Occultations*," by **M. J. Person**, S. M. in Earth, Atmospheric, and Planetary Sciences, MIT, Cambridge, MA (2001).

1) "*Reflectance Spectra of the Galilean Satellites of Jupiter*," by **M. J. Person**, S. B. in Physics, MIT, Cambridge, MA (1994).

II. Publications in Refereed Journals

45) "Three Chords of Trans-Neptunian Object (28978) Ixion from May 2021 Occultations", Colclasure, A., et al. (including **M. J. Person**) (in preparation), (2026).

44) "*Analysis of the 2017 Triton Occulation from SOFIA and Ground-based Observatories*," **Person, M. J**.; et al. (in preparation), (2026)

43) "Changes in Pluto's Atmosphere Based on Stellar Occultation Data from 2017–2023," Sickafoose, A. A., *et al.* (including **M. J. Person**) (in preparation), (2026).

42*) Calculating occultation light curves using wavelets: Exponential atmospheres and the constraints of static stability,* Young, L. A., & **Person, M. J.** (2025). *The Planetary Science Journal*, 6.

41*) Lightcurve and rotation period of near-Earth asteroid 887 Alinda during the 2025 close approach,* Brothers, T. C., *et al.* (including **M. J. Person**) (2025). *Minor Planet Bulletin*, 52, 211–213.

40*) The upper atmosphere of Uranus from stellar occultations. II. Revised temperatures in the upper stratosphere and lower thermosphere,* Saunders, W. R., **Person, M. J.,** Withers, P., French, R. G., & Tubthong, C. (2024). *The Planetary Science Journal*, 5.

39*) Stellar occultations in the era of data mining and modern regression models: Using Gaussian processes to analyze light curves and improve predictions,* Knieling, B., Schindler, K., Sickafoose, A. A., **Person, M. J.**, Levine, S. E., & Krabbe, A. (2024). *The Planetary Science Journal*, 5.

38*) Material around the Centaur (2060) Chiron from the 2018 November 28 UT stellar occultation,* Sickafoose, A. A., *et al.* (including **M. J. Person**) (2023). *The Planetary Science Journal*, 4.

37*) Spin vectors in the Koronis family: V. Resolving the ambiguous rotation period of (3032) Evans,* Slivan, S. M., Wilkin, F. P., McLellan-Cassivi, C., & **Person, M. J.** (2023). *Icarus*, 405.

36*) The upper atmosphere of Uranus from stellar occultations. I. Methods and validation,* Saunders, W. R., **Person, M. J.,** Withers, P., French, R. G., & Tubthong, C. (2023). *The Planetary Science Journal*, 4.

35*) Uranus ring occultation observations: 1977–2006,* French, R. G., *et al.* (including **M. J. Person**) (2023). *Icarus*, 395.

34*) Milliarcsecond astrometry for the Galilean moons using stellar occultations,* Morgado, B. E., *et al.* (including **M. J. Person**) (2022). *The Astronomical Journal*, 163.

33*) Assessment of the feasibility of space-based stellar occultation observations of Uranus and Neptune,* Saunders, W. R., *et al.* (including M. J. Person) (2022). *Planetary and Space Science*, 213.

32) "*Observations of gravity waves in the middle atmpsphere of Mars*," Saunders, W., **Person, M. J**, Withers, P., *The Astronomical Journal* , (2021)

31) "*Occultation of a Large Star by the Large Plutino (28978) Ixion on 2020 October 13 UTC*," Levine, S., Zuluaga, C., **Person, M. J**, Sickafoose, A., Bosh, A., Collins, M., *The Astronomical Journal*, (2021)

30) "*Size and Shape of (11351) Leucus from five occultations*," Buie, M., **Person, M. J**.; et al. *Planetary Science Journal* , (2021)

29) "*Haze in Pluto's atmosphere: Results from SOFIA and ground-based observations of the 2015 June 29 Pluto occultation*," **Person, M. J**.; Bosh, A. S.; Zuluaga, C. A.; Sickafoose, A. A.; Levine, S. E.; Pasachoff, J. M.; Babcock, B. A.; Dunham, E. W.; McLean, I.; Wolf, J.; Abe, F.; Becklin, E.; Bida, T. A.;

Bright, L. P.; Brothers, T.; Christie, G.; Collins, P. L.; Durst, R. F.; Gilmore, A. C.; Hamilton, R.; Harris, H. C.; Johnson, C.; Kilmartin, P. M.; Kosiarek, M. R.; Leppik, K.; Logsdon, S. E.; Lucas, R.; Mathers, S.; Morley, C. J. K.; Nelson, P.; Ngan, H.; Pfüller, E.; Natusch, T.; Röser, H.-P.; Sallum, S.; Savage, M.; Seeger, C. H.; Siu, H.; Stockdale, C.; Suzuki, D.; Thanathibodee, T.; Tilleman, T.; Tristram, P. J.; Van Cleve, J.; Varughese, C.; Weisenbach, L. W.; Widen, E.; Wiedemann, M., *Icarus*, Volume 356, (2021)

28) "*Size and Shape Constraints of (486958) Arrokoth from Stellar Occultations*," Buie, M., **Person, M. J**.; et al. *Astronomical Journal*, Vol. 159, Issue 4, (2020)

27*) "A Stellar occultation by Vanth a satellite of (90482) Orcus",* Sickafoose, A. A., Bosh, A., Levine, S., Zuluaga, C., Genade, A., Schindler, K., Lister, T., **Person, M. J.,** *Icarus,* Volume 319, p. 657-668. (2019)

26) "*Pluto occultation on 2015 June 29 UTC with central flash and atmospheric spikes just before the New Horizons flyby*," Pasachoff, J M.; Babcock, B A.; Durst, R F.; Seeger, C H.; Levine, S E.; Bosh, A S.; **Person, M J.;** Sickafoose, S A.; Zuluaga, C A.; Kosiarek, M R.; Abe, F; Nagakane, M; Suzuki, D; Tristram, P J.; Arredondo, A, *Icarus*, Volume 296, p. 305-314. (2017)

25) "SAURON: The Wallace Observatory Small Autonomous Robotic Optical Nightwatcher", Kosiarek, M., Mansfield, M., Brothers, T., Bates, H., Aviles, R., Brode-Roger, O., **Person, M**., Russel, M., *Publications of the Astronomical Society of the Pacific* 129, 977 (2017)

24) "*The Mission Accessible Near-Earth Objects Survey (MANOS): First Photometric Results*," Thirouin, A.; Moskovitz, N.; Binzel, R. P.; Christensen, E.; DeMeo, F. E.; **Person, M. J**.; Polishook, D.; Thomas, C. A.; Trilling, D.; Willman, M.; Hinkle, M.; Burt, B.; Avner, D.; Aceituno, F. J., *The Astronomical Journal*, Volume 152, Issue 6, article id. 163, 31 pp. (2016)

23) "*Trio of Stellar Occultations by Pluto One Year Prior to New Horizons' Arrival*," Pasachoff, J M.; **Person, M J**.; Bosh, A S.; Sickafoose, A A.; Zuluaga, C; Kosiarek, M R.; Levine, S E.; Osip, D J.; Schiff, A; Seeger, C H.; Babcock, B A.; Rojo, P; Servajean, E., *The Astronomical Journal*, Volume 151, Issue 4, article id. 97, 5 pp. (2016)

22) "A 2 km-size asteroid challenging the rubble-pile spin barrier - A case for cohesion," Polishook, D.; Moskovitz, N.; Binzel, R. P.; Burt, B.; DeMeo, F. E.; Hinkle, M. L.; Lockhart, M.; Mommert, M.; **Person, M.;** Thirouin, A.; Thomas, C. A.; Trilling, D.; Willman, M.; Aharonson, O., Icarus, Volume 267, p. 243-254. (2016)

21) "*Observations of a successful stellar occultation by Charon and graze by Pluto in 2011: multiwavelength SpeX and MORIS data from the IRTF*." Gulbis, A. A. S., J. Emery, **M. J. Person** *et al. Icarus*, Volume 246, p. 226-236. (2015)

20) "*The State of Pluto's Atmosphere in 2012-2013*" Bosh, A. S., **M. J. Person**, S. E. Levine *et al. Icarus,* Volume 246, p. 237-246*.* (2015)

19) "*29 November 2011 Stellar Occultation by 2060 Chiron: Symmetric Jet-like Features,*" Jessica D. Ruprecht, J.D. , Bosh, A. S., **Person, M. J**., Bianco, F. B., Fulton, B. J., Gulbis, A. A. S., Bus, S. J., Zangari, A. M., *Icarus,* Volume 252, p. 271-276. (2015)

18) *"The 2011 June 23 Stellar Occultation by Pluto: Airborne and Ground Observations,"* by **M. J. Person**, E. W. Dunham, A. S. Bosh, S. E. Levine, A. A. S. Gulbis, A. M. Zangari, C. A. Zuluaga, J. M. Pasachoff, B. A. Babcock, S. Pandey, D. Amrhein, S. Sallum, D. J. Tholen, P Collins, T. Bida, B. Taylor, J. Wolf, A. Meyer, E. Pfueller, M. Wiedemann, H.-P. Roeser, R. Lucas, M. Kakkala, J. Ciotti, S. Plunkett, N. Hiraoka, W. Best, E. J. Pilger, M. Miceli, A. Springmann, M. Hicks, B. Thackeray, J. Emery, S. Rapoport, I. Ritchie, M. Pearson, A. Mattingly, J. Brimacombe, D. Gault, R. Jones, R. Nolthenius, J. Broughton, T. Barry, *Astron. J.* 146, (2013).

17) "*Size and albedo of Kuiper belt object 55636 from a stellar occultation*," by J. L. Elliot, **M. J. Person**, C. A. Zuluaga, A. S. Bosh, E. R. Adams, T. C. Brothers, A. A. S. Gulbis, S. E. Levine, M. Lockhart, A. M. Zangari, B. A. Babcock, K. DuPre´, J. M. Pasachoff, S. P. Souza, W. Rosing, N. Secrest, L. Bright, E. W. Dunham, S. S. Sheppard, M. Kakkala, T. Tilleman, B. Berger, J. W. Briggs, G. Jacobson, P. Valleli, B. Volz, S. Rapoport, R. Hart, M. Brucker, R. Michel, A. Mattingly, L. Zambrano-Marin, A. W. Meyer, J. Wolf, E. V. Ryan, W. H. Ryan, K. Morzinski, B. Grigsby, J. Brimacombe, D. Ragozzine, H. G. Montano and A. Gilmore. *Nature* 465, 897-900 (2010).

16) "*PICO: Portable Instrument for Capturing Occultations*," by M. Lockhart, **M. J. Person**, J. L. Elliot and S. P. Souza. *Publ. Astron. Soc. Pacific* 122, 1207-1213 (2010).

15) "*Buoyancy waves in Pluto's high atmosphere: Implications for stellar occultations*," by W. B. Hubbard, D. W. McCarthy, C. A. Kulesa, S. D. Benecchi, **M. J. Person**, J. L. Elliot and A. A. S. Gulbis. *Icarus* 204, 284-289 (2009).

14) "*Waves in Pluto's Upper Atmosphere*," by **M. J. Person**, J. L. Elliot, A. A. S. Gulbis, C. A. Zuluaga, B. A. Babcock, A. J. McKay, J. M. Pasachoff, S. P. Souza, W. B. Hubbard, C. A. Kulesa, D. W. McCarthy, S. D. Kern, S. E. Levine, A. S. Bosh, E. V. Ryan, W. H. Ryan, A. Meyer and J. Wolf. *Astron. J*. 136, 1510-1518 (2008).

13) "*Occultation Measurement of Gravity Wave Breaking in Pluto's High Atmosphere*," by D. McCarthy, C. Kulesa, W. Hubbard, S. D. Kern, **M. J. Person**, J. L. Elliot and A. A. S. Gulbis. *Astron. J*. 136, 1519-1522 (2008).

12) "*Changes in Pluto's atmosphere: 1988-2006*," by J. L. Elliot, **M. J. Person**, A. A. S. Gulbis, S. P. Souza, E. R. Adams, B. A. Babcock, J. W. Gangestad, A. E. Jaskot, E. A. Kramer, J. M. Pasachoff, R. E. Pike, C. A. Zuluaga, A. S. Bosh, S. W. Dieters, P. J. Francis, A. B. Giles, J. G. Greenhill, B. Lade, R. Lucas and R. D. J. *Astron. J*. 134, 1-13 (2007)

11) "*Charon's radius and density from the combined data sets of the 2005 July 11 occultation*," by **M. J. Person**, J. L. Elliot, A. A. S. Gulbis, J. M. Pasachoff, B. A. Babcock, S. P. Souza and J. W. Gangestad. *Astron. J*. 132, 1575-1580 (2006).

10) "*POETS: Portable Occultation, Eclipse, and Transit System*," by S. P. Souza, B. A. Babcock, J. M. Pasachoff, A. A. S. Gulbis, J. L. Elliot, **M. J. Person** and J. W. Gangestad. *Publ. Astron. Soc. Pacific* 118, 1550-1557 (2006).

9) "*Charon's radius and atmospheric constraints from observations of a stellar occultation*," by A. A. S. Gulbis, J. L. Elliot, **M. J. Person**, E. R. Adams, B. A. Babcock, M. Emilio, J. W. Gangestad, S. D. Kern, E. A. Kramer, D. J. Osip, J. M. Pasachoff, S. P. Souza and T. Tuvikene. *Nature* 439, 48-51 (2006).

8) "*The structure of Pluto's atmosphere from the 2002 August 21 stellar occultation*," by J. M. Pasachoff, S. P. Souza, B. A. Babcock, D. R. Ticehurst, J. L. Elliot, **M. J. Person**, K. B. Clancy, L. C. Roberts Jr., D. T. Hall and D. J. Tholen. *Astron. J*. 129, 1718-1723 (2005).

7) "*The recent expansion of Pluto's atmosphere*," by J. L. Elliot, A. Ates, B. A. Babcock, A. S. Bosh, M. W. Buie, K. B. Clancy, E. W. Dunham, S. S. Eikenberry, D. T. Hall, S. D. Kern, S. K. Leggett, S. E. Levine, D.-S. Moon, C. B. Olkin, D. J. Osip, J. M. Pasachoff, B. E. Penprase, **M. J. Person**, S. Qu, J. T. Rayner, L. C. Roberts Jr., C. V. Salyk, S. P. Souza, R. C. Stone, B. W. Taylor, D. J. Tholen, J. E. Thomas-Osip, D. R. Ticehurst and L. H. Wasserman. *Nature* 424, 165-168 (2003).

6) "*Analysis of stellar occultation data. II. Inversion, with application to Pluto and Triton*," by J. L. Elliot, **M. J. Person** and S. Qu. *Astron. J.* 126, 1041-1079 (2003).

5) "*The prediction and observation of the 1997 July 18 stellar occultation by Triton: More evidence for distortion and increasing pressure in Triton's atmosphere*," by J. L. Elliot, **M. J. Person**, S. W. McDonald, M. W. Buie, E. W. Dunham, R. L. Millis, R. A. Nye, C. B. Olkin, L. H. Wasserman, L. A. Young, W. B. Hubbard, R. Hill, H. J. Reitsema, J. M. Pasachoff, T. H. McConnochie, B. A. Babcock, R. C. Stone and P. Francis. *Icarus* 148, 347-369 (2000).

4) "*The Inner Coma and Nucleus of Comet Hale-Bopp: Results from a Stellar Occultation*," by Y. R. Fernandez, D. D. Wellnitz, M. Buie, E. W. Dunham, R. L. Millis, R. A. Nye, J. A. Stansberry, L. H. Wasserman, M. A'Hearn, C. M. Lisse, M. E. Golden, **M. J. Person**, R. R. Howell, R. L. Marcialis and J. N. Spitale. *Icarus* 140, 205-220 (1999).

3) "*Global warming on Triton*," by J. L. Elliot, H. B. Hammel, L. H. Wasserman, O. G. Franz, S. W. McDonald, **M. J. Person**, C. B. Olkin, E. W. Dunham, J. R. Spencer, J. A. Stansberry, M. W. Buie, J. M. Pasachoff, B. A. Babcock and T. H. McConnochie. *Nature* 393, 765-767 (1998).

2) "*Chiron stellar occultation candidates: 1996-2000*," by **M. J. Person**, S. J. Bus, L. H. Wasserman and J. L. Elliot. *Astron. J.* **112**, 1683-1689 (1996).

1) "*Charge-coupled device spectra of the Galilean satellites: Molecular oxygen on Ganymede*," by J. R. Spencer, W. M. Calvin and **M. J. Person**. *J. Geophys. Res.* **100**, 19049-19056 (1995).

III. Solicited Writings

5) "*Sternbedeckungen mit HIPO, FLITECAM, and FPI+*" (Stellar Occultations with FIPO, FLITECAM, and FPI+), Schindler K, Dunham, E., and **Person, M. J.**, *SOFIA Mission infrarotes Universum*, Universitaet Stuttgart, (2025)

4) "*Composition and Structure of Pluto's Atmosphere*," M. E. Summers, L. A. Young, G. R. Gladstone, **M. J. Person,** *The Pluto System after New Horizons,* Univ. of Arizona Press*, (2021).*

3) "*The New Horizons Flyby*," **M. J. Person**, ScienceAccess, McGrawHill Education Publications (2016)

2) "*Pluto's Atmosphere*," **M. J. Person**, ScienceAccess, McGrawHill Education Publications (2016)

1) "*Pluto: An Interesting member of the outer solar system,"* by Jay M. Pasachoff, and **M. J. Person**, Google Knol, Internet URL Address: http://knol.google.com/k/jay-m-pasachoff/pluto/mf_fh_NM/ATJCXQ, Accessed: 14 Sep 2011 (2011)

IV. Student Theses and Publications Supervised

18) "*First visible wavelength lightcurves for the Northern Hemispheres of Titania and Oberon"* Colclasure, Abigail M..; Massachusetts Institute of Technology. Department of Earth, Atmospheric, and Planetary Sciences., **S.M. Thesis,** (2025)

17) "*The Upper Atmospheric Tempearature Distribution of Uranus via Stellar Occultations*", **Ph. D. Thesis**, Boston University (2024)

16) "*A Photometric Investigation of Major Uranian Satellites*," Colclasure, Abigail, **S.B. Thesis**, MIT (2024)

15) "*Photometric Explorations of Volatile Shifts on Pluto's Surface*," McLellan-Cassivi, Claire, **S.B. Thesis**, MIT (2023)

14) "*Searching for Oscillations in Small-Scale Magnetic Structures in the Solar Corona Using 2017 Total Solar Eclipse Forbidden-Line Images from the Williams College Expedition*," Wang, Allen, **B.S. Thesis**, Williams College (2020)

13) "*The Implementation of Stellar Occultation Light Curve Modelling for Arbitrary Planetary Atmospheric Structures and the Analysis of Pluto's Occultation Light Curve and Its Atmosphere*", Tubthong, Chanita, **S.B. Thesis**, MIT (2021)

12) "*Rotation Period of Asteroid 3494 Purple Mountain,"* Kosiarek, M.; Nisley, I.; Patra, K.; Hatano, R.; Bates, H.; Chavez, E.; Kosiarek, J. L.; Kumari, S., Bulletin of the Minor Planets Section of the Association of Lunar and Planetary Observers, Vol. 44, No. 3, pp. 171-172 (2017)

11) "*A Discrete Forward-Modelling Method for Characterizing Occultation Lightcurves of Tenuous Planetary Astmospheres*," Siu, Ho Chit, **S. M. Thesis**, MIT (2015)

10) "*Limits of Astrometric and Photometric Precision on KBOs Using Small Telescopes*, " Dunham, E., Kosariak, M., Martakou, E., and Wang, A., Pub. of the Astronomical Society of the Pacific, (2015).

9) "*Astronomical Stidies of Solar System Bodies 2060 Chiron and 1 Ceres*," Ruprecht, J. D., **S. M. Thesis**, MIT (2013)

8) "*Lightcurve Results for 899 Jokaste and 3782 Celle from Wallace Astrophysical Observatory,*" Bowens-Rubin, R., and Henderson, P., Minor Planet Bulletin (2013).

7) "*Investigating Plutographic variation through stellar occultations and PSF photometry,"* Zangari, A. M., **Ph. D. Thesis**, MIT (2013)

6) "*Time-Resolved Spectral Observations of (1) Ceres,*" Henderson, P., **S. B. Thesis**, MIT (2013)

5) "*Analysis of the 22 May 2011 Stellar Occultation by Pluto,*" Sallum, S. E., **S. B. Thesis**, MIT (2012)

4) "*A Search for Satellites of Kuiper Belt Object 55636 from the 2009 October 9 Occultation,*" Jensen-Clem, R., **S. B. Thesis** MIT (2011)

3) "*KBO Astrometry Using Small Telescopes*," Bowens-Rubin et al., Journal of Undergraduate Research; (2010)

2) "*Evaluation, Design, and Construction of the Wallace Astrophysical Observatory Camera for Astronomical Observations*," Rojas, E. R., **S.B. Thesis**, MIT (2008)

1) "*Extrasolar Planet Transit Photometry at Wallace Astrophysical Observatory*," Fong, W., **S.B. Thesis**, MIT (2008)

V. Other Publications

78) *Pluto's atmosphere in decline*. Sickafoose, A., *et al.* (including **M. J. Person**) (2025). *EPSC–DPS Joint Meeting 2025*.

77) *Simulating Quaoar's ring with confinement by Weywot.* Lewis, M., *et al.* (including **M. J. Person**) (2025). *EPSC–DPS Joint Meeting 2025*.

76) *Stellar occultation observations of Uranus to constrain the stratosphere for aerocapture.* Saunders, W. R., *et al.* (including **M. J. Person**) (2024). *AGU Fall Meeting Abstracts*.

75) *Shadow Chaser: A SmallSat mission concept to measure the upper atmosphere of Uranus from Earth orbit, and enabling aerocapture orbit insertion benefits for Uranus orbiter and probe.* Sayanagi, K. M., *et al.* (including **M. J. Person**) (2024). *AGU Fall Meeting Abstracts*.

74) *How atmospheric waves affect occultation light curves: A wavelet approach. Y*oung, L., & **Person, M.** (2024). *56th Annual Meeting of the Division for Planetary Sciences*.

73) *Stellar occultations by bodies in the outer solar system.* Sickafoose, A., *et al.* (including **M. J. Person**) (2024). *32nd General Assembly of the International Astronomical Union (IAUGA 2024)*.

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VI. Award Citation

Citation for Massachusetts Institute of Technology Excellence Award – Presented in 2009

> Last year, the Department of Earth, Atmospheric, and Planetary Sciences was dealt a blow in the serious illness of one of its professors. While he pursued treatment, a research scientist stepped into the void and kept the group's work going. He met with each student in the group, supervised several theses and UROPs, and taught the professor's classes, even though these tasks are completely outside the realm of his responsibility. He also prepared equipment, drove students to the observatory in Westford, and stayed with them there late into the night while they made observations.
>
> The nomination letters sing the same refrain: this young scientist doubled his workload and obligations but sought no recognition or thanks…although he says he was just doing what needed to be done, his actions went well beyond what might have been reasonable to expect. Instead of descending to chaos, education and research in this section of EAPS held its center in the face of unpredictability. For outstanding collegiality, we thank him on behalf of his department with the Unsung Hero award.