Eric L. N. Jensen

ejensen1@swarthmore.edu | Dept. of Physics & Astronomy | Swarthmore College

Academic Leadership Experience

Swarthmore College, Swarthmore PA

Dean of Academic Success, 2023–present.

- *Oversee all areas in the Division of Student Affairs concerned with academics, including the Registrar's Office, Student Disability Services, Pre-health/pre-law advising, Student Academic Mentors, and Fellowships & Prizes (11 staff total).*
- *Serve as a liaison between faculty and Student Affairs. As the only faculty member in Student Affairs, work with academic departments and programs to ensure that the faculty voice is represented.*
- *Coordinate academic advising, tutoring, and student support, including assignment of faculty academic advisors.*
- *Serve on the Curriculum Committee, reviewing curricular issues and helping to examine the curriculum as part of strategic plan implementation.*
- *Co-chair the Committee on Academic Requirements, responsible for academic standing and probation decisions.*
- *Work closely with the Vice President for Student Affairs as part of the Student Affairs executive team.*

Chair, Division of Natural Sciences and Engineering, 2007–2008; 2021–2023.

- *Worked with the seven department chairs in the NSE Division to identify issues of concern and coordinated with the Provost and Dean of the Faculty to help resolve them.*
- *Served on the Curriculum Committee and the Academic Assessment Committee.*
- *Coordinated the allocation of summer research stipends and funding for scientific equipment and visualization software.*

Middle States Self-Study/Reaccreditation Steering Committee, 2017–2019.

- *Co-chaired the working group on Governance, Leadership, and Administration.*
- *Co-authored the self-study chapter on that topic.*

Program Chair, Interdisciplinary Program in Environmental Studies, 2017–2019.

- *Worked with Environmental Studies committee faculty colleagues to craft a successful proposal for an Honors major in Environmental Studies.*
- *Coordinated funding to encourage faculty to develop and teach new courses in Environmental Studies.*

Director, Frank Aydelotte Foundation for the Advancement of the Liberal Arts, 2014–2017.

- *Coordinated faculty-driven initiatives in support of the liberal arts, including Faculty Research Seminars, Faculty Pedagogy Seminars, Science/Social Science/Humanities Café talk series, book groups, and faculty dinner discussions.*
- *Supervised Associate Director.*
- *Managed the Foundation's endowed budget.*
- *Chaired meetings with the internal Steering Committee and external Advisory Board.*

Chair, Department of Physics and Astronomy, 2009–2014 (on leave 2012–2013).

- *Worked with department faculty to coordinate the curriculum and teaching assignments.*
- *Managed three full-time staff and department budget.*

Other College service:

- *COFP, 2013–2015, 2018–2020*
- *Strategic Planning Council (one of four faculty on main steering committee), 2010–2012*
- *CEP, 2005–2007*
- *Faculty observer for Board of Managers meetings, 2005–2007*
- *Electronic Privacy Committee, 2003–2004*
- *Intellectual Property Task Force (drafted a new IP policy), 2000–2003*
- *Swarthmore Foundation Committee, 1999–2000*

Education

Ph.D. in Astronomy, University of Wisconsin-Madison, August 1996 (M.S. August 1992).

B.A. in Physics, Carleton College, 1987. *Magna cum laude*, distinction in Physics, Phi Beta Kappa.

Academic Employment

Walter Kemp Professor of Astronomy, Swarthmore College, 2024–present; Professor, 2012–present; Associate Professor 2004–2012; Assistant Professor 1998–2004. Taught courses in Astronomy, Physics, and Environmental Studies, from introductory courses for non-majors to advanced seminars.

Instructor and Visiting Research Associate, Arizona State University, 1996–1998.

Research

Author or co-author of more than 160 refereed publications. Primary author of papers in *Nature*, *The Astrophysical Journal*, and *The Astronomical Journal*; co-author of additional papers in those journals plus *Science, Nature Astronomy, Astronomy & Astrophysics,* and *Monthly Notices of the Royal Astronomical Society.*

Principal investigator of grants totaling more than $600K from NASA and the National Science Foundation, including funding for Swarthmore's Peter van de Kamp Observatory.

Journal article referee for *American Journal of Physics, Astronomical Journal, Astronomy & Astrophysics, Astrophysical Journal, Astrophysical Journal Letters, Monthly Notices of the Royal Astronomical Society,* and *Nature*.

Research advisor for more than 40 undergraduate students.

Selected publications

All papers can be viewed in NASA's Astrophysics Data System, at orcid.org, or in my extended CV on my website. Swarthmore student co-authors are denoted with an asterisk in the list below.

Sinclair, A. E.*, Jensen, E. L. N., Parts, C. P.*, Collins, K. A. et al. 2025, "Nine Young, Low-Mass Eclipsing Binaries from TESS", in preparation.

Flaherty, K., Knowlton, P., Smith-Gandy, T., Hughes, A. M., Kounkel, M., Jensen, E. L. N., Muzerolle, J., Covey, K. 2025, "The Influence of Tight Binaries on Proto-planetary Disk Masses," under review by AAS journals.

Kutra, T., Prato, L., Tofflemire, B. M., Akeson, R., Schaefer, G. H., Tang, S.-Y., Segura-Cox, D., Johns-Krull, C. M., Kraus, A., Andrews, S., Jensen, E. L. N., 2025, "Sites of Planet Formation in Binary Systems. II. Double the Disks in DF Tau." *The Astronomical Journal*, 169, 20.

Zhang, J., Weiss, L. M., Huber, D., Jensen, E. L. N., et al., 2024, "Dynamical Architectures of S-type Transiting Planets in Binaries. I. Target Selection Using Hipparcos and Gaia Proper Motion Anomalies." *The Astronomical Journal*, 167, 89.

Elsender, D., Bate, M. R., Lakeland, B. S., Jensen, E. L. N., Lubow, S. H., 2023, "On the frequencies of circumbinary discs in protostellar systems." *Monthly Notices of the Royal Astronomical Society*, 523, 4353.

Offner, S. S. R., Moe, M., Kratter, K.M., Sadavoy, S.I., Jensen, E. L. N., and Tobin, J. J. 2023, "The Origin and Evolution of Multiple Star Systems." Review chapter in *Protostars and Planets VII*, 534, 275. doi:10.48550/arXiv.2203.10066

Trifonov, T., et al. (including E. Jensen), 2021, "A nearby transiting rocky exoplanet that is suitable for atmospheric investigation." *Science*, 371, 1038.

Armstrong, D. J., et al. (including E. Jensen), 2020, "A remnant planetary core in the hot-Neptune desert." *Nature*, 583, 39.

Czekala, I., Chiang, E., Andrews, S. M., Jensen, E. L. N., Torres, G., Wilner, D. J., Stassun, K. G., and Macintosh, B., 2019, "The Degree of Alignment between Circumbinary Disks and Their Binary Hosts." *Astrophysical Journal* 883, 22.

Akeson, R.L., Jensen, E.L.N., Carpenter, J., Ricci, L., *Laos, S., *Nogueira, N., and *Suen-Lewis, E. 2019, "Resolved Young Binary Systems and Their Disks." *Astrophysical Journal* 872, 158.

Gaudi, B. S., et al. (including E. Jensen), 2017. "A giant planet undergoing extreme-ultraviolet irradiation by its hot massive-star host." *Nature* 546, 514–518.

Jensen, E. L. N. and Akeson, R. L. 2014. "Misaligned Protoplanetary Disks in a Young Binary Star System," *Nature*, 511, 567.

Akeson, R.L., and Jensen, E.L.N. 2014. "Circumstellar Disks Around Binary Stars in Taurus," *Astrophysical Journal*, 784, 62.

*Yee, J, C. and Jensen, E.L.N. 2010. "A Test of Pre–Main-Sequence Li Depletion Models," *Astrophysical Journal*, 711, 303.