Ekrem Murat Esmer

Postdoctoral Researcher
Department of Physics & Astronomy, University of Kansas

1251 Wescoe Hall Dr., Room 2059
Lawrence, KS 66045, USA
ekrem@ku.edu | ekremesmer.com

EMPLOYMENT

- **Postdoctoral Researcher**, University of Kansas, Lawrence, KS — June 2026 – Present
- **Postdoctoral Research Associate**, Washington University, St. Louis, MO — July 2024 – June 2026
- **Research Assistant**, Ankara University, Ankara, Turkey — January 2015 – June 2024
  Academic staff position with research and undergraduate teaching duties.

EDUCATION

- **PhD in Astronomy and Space Sciences**, Ankara University, Ankara, Turkey — September 2022
  Thesis: *Orbital Stabilities of the Substellar Objects in Multibody Stellar Systems*
  Supervisor: Prof. Selim O. Selam
  Co-supervisor: Prof. Alexandre C. M. Correia (University of Coimbra, Portugal)
  Visiting PhD Student, University of Coimbra, Portugal — 2018–2019
- **MSc in Astronomy and Space Sciences**, Ankara University, Ankara, Turkey — 2015
  Thesis: *Timing Method to Discover Exoplanets in Multiple Star Systems*
  Supervisor: Prof. Selim O. Selam
  Additional graduate coursework through the Erasmus Mundus Program — 2012–2014
  (Univ. of Innsbruck, Austria; Univ. of Padova, Italy; Univ. of Belgrade, Serbia)
- **BSc in Astronomy and Space Sciences**, Ankara University, Ankara, Turkey — 2011

GRANTS AND FELLOWSHIPS

- McDonnell Center for the Space Sciences Postdoctoral Fellowship — 2024–2026
  Washington University in St. Louis
  Competitive, independent fellowship for a self-proposed research program; $144,000 (salary + research funds)
- Co-I, *An Exoplanet Search Around Evolved Binary Star Systems* — 2023–2026
  TÜBİTAK 1001 (Turkey's primary national research grant; cf. NSF AAG); total funding 1,146,568 Turkish lira
  Contribution: Originated from my doctoral research; major role in proposal development and research execution.
- Co-I, *Determining the Limits for Direct Imaging of Objects Around Binary Star Systems* — 2023–2026
  YÖK Research Universities Support Program (national competitive research grant); total funding 567,736 Turkish lira
- Researcher, *Exoplanet Discovery via the Timing Method* — 2018–2021
  TÜBİTAK 1001 (Turkey's primary national research grant; cf. NSF AAG)
  Contribution: proposal preparation, reports and research execution; formally supported in the final phase.
- International Research Fellowship for PhD Students — 2018–2019
  TÜBİTAK 2214-A; EUR 16,800
- Grant Program for Participation in Scientific Meetings Abroad — 2023
  TÜBİTAK 2224-A Program; 9,557 Turkish lira
- International Scientific Activity Support Program — 2018, 2023
  Ankara University; ∼26,000 Turkish lira (total)

AWARDS AND HONORS

- McDonnell Center for the Space Sciences Postdoctoral Fellowship – Washington University in St. Louis 2024
- PhD Performance Award – Ankara University Graduate School of Natural and Applied Sciences 2024
- National Postdoctoral Research Fellowship – TÜBİTAK 2218 (awarded but not initiated) 2022
- Best Oral Presentation Award, XXII National Astronomy Congress – Turkish Astronomical Society 2022
- International Research Fellowship for PhD Students – TÜBİTAK 2214-A 2018

PUBLICATIONS

ADS/SciX | Google Scholar | ORCID

24 peer-reviewed journal articles | 12 proceedings and other publications 284 ADS citations | h-index 10
4 manuscripts submitted or under review (1 first-author, 3 co-authored) (as of Nov 2026)
12 papers led by mentored students (2 under review); student names underlined
† Corresponding author (marked on co-authored papers)

First-Author Publications

1. **Esmer, E. M.,** & Daylan, T. (2025). Eclipse Timing Variations of Circumbinary Substellar Objects in TESS Data. *AJ*, 170, 322. DOI

2. **Esmer, E. M.**, Baştürk, Ö., & Selam, S. O. (2023). Testing the planetary hypothesis of NY Virginis: anticipated change in the eclipse timing trend within the next five years. *MNRAS*, 525, 6050-6063. DOI

3. **Esmer, E. M.**, Baştürk, Ö., Selam, S. O., & Aliş, S. (2022). Detection of two additional circumbinary planets around Kepler-451. *MNRAS*, 511, 5207-5216. DOI

4. **Esmer, E. M.**, Baştürk, Ö., Hinse, T.C., Selam, S. O., & Correia, A.C.M. (2021). Revisiting the analysis of HW Virginis eclipse timing data. I. A frequentist data modeling approach and a dynamical stability analysis. *A&A*, 648, A85. DOI

Co-Authored Publications

5. Al Zaman, M.A., Crossfield, I.J.M., **Esmer, E. M.**, & Pero, J. (2026). Reassessment of Planetary Parameters and Statistical Validation of 187 Kepler Habitable-Zone and Near Habitable Confirmed and Candidate Planets. *AJ*, in press.

6. Temelci, A., Selam, S. O., **Esmer, E. M.**, Şenavcı, H. V., & Bahar, E. (2026). Multiplicity of UZ Lyr revisited: Two-companion model and its dynamical stability. *NewA*, 125, 102533. DOI

7. Şimşir, Ö., Akar, F., Sertkan, E., Güler, B., Kutluay, A. C., Yalçınkaya, S., Shameoni Niaei, M., Ertürk, İ. A., Uçar, S., **Esmer, E. M.**, Baştürk, Ö., & Selam, S. O. (2026). Timings of Eclipses in the Light Curves of Selected Post Common Envelope Binaries. *TJAA*, 7. DOI

8. Özavcı, İ., Bahar, E., **Esmer, E. M.**, Dimitrow, W., Tokarek, J.J., Yılmaz, M., & Şenavcı, H. V. (2026). A hierarchical quadruple system revealed by eclipse timing variations and radial velocities: TIC 263930790. *MNRAS*, 548, stag614. DOI

9. Baştürk, Ö., Sertkan, E., Akar, F., Munari, U., Güler, B., **Esmer, E. M.**, Selam, S. O., Kutluay, A.C., Wolf, M., Zasche, P., Kučáková, H., Zejda, M., & Şimşir, Ö. (2026). A detailed study of the physical and orbital characteristics, and eclipse timing variations of the Post Common Envelope Binary DD CrB. *MNRAS*, 547, stag290. DOI

10. Yalçınkaya, S., Barkaoui, K., et al. (including **Esmer, E. M.**) (2025). TOI-1743 b, TOI-5799 b, TOI-5799 c, and TOI-6223 b: TESS discovery and validation of four super-Earth to Neptune-sized planets around M dwarfs. *A&A*, 702, A209. DOI

11. Hinse, T.C., Baştürk, Ö., Southworth, J., Feiden, G. A., Tregloan-Reed, J., Kostov, V. B., Livingston, J., **Esmer, E. M.**, et al. (2024). Absolute dimensions of solar-type eclipsing binaries. NY Hya: A test for magnetic stellar evolution models. *A&A*, 687, A116. DOI

12. Yalçınkaya, S., **Esmer, E. M.**, et al. (2024a). Looking for timing variations in the transits of 16 exoplanets. *MNRAS*, 530, 2475-2495. DOI

13. Baştürk, Ö., Southworth, J., Yalçınkaya, S., Mancini, L., **Esmer, E. M.**†, Tekin, M., Tezcan, F., Evans, D. F., Tezcan, C. T., Bruni, I., & Yeşilyaprak, C. (2023). Transit timing variation analysis of the low-mass brown dwarf KELT-1 b. *MNRAS*, 521, 1200-1209. DOI

14. Baştürk, Ö., **Esmer, E. M.**†, et al. (2022). Homogeneous transit timing analyses of 10 exoplanet systems. *MNRAS*, 512, 2062-2081. DOI

15. Şenavcı, H. V., Čeki, A., **Esmer, E. M.**, Yalçınkaya, S., Latković, O., Bahar, E., Yılmaz, M., Baştürk, Ö., Özavcı, İ., Yörükoğlu, O., & Selam, S. O. (2022). RR Draconis: An Algol-Type Eclipsing Binary with a Possible Massive Tertiary Companion. *AcA*, 72, 31-53. DOI

16. Poro, A., Davoudi, F., Alicavus, F., Khakpash, S., **Esmer, E. M.**, et al. (2021). The First Light Curve Solutions and Period Study of BQ Ari. *AstL*, 47, 402-410. DOI

17. Davoudi, F., Baştürk, Ö., Yalçınkaya, S., **Esmer, E. M.**, & Safari, H. (2021). Investigation of Orbital Decay and Global Modeling of the Planet WASP-43 b. *AJ*, 162, 210. DOI

18. Yalçınkaya, S., Baştürk, Ö., El Helweh, F., **Esmer, E. M.**, Yörükoğlu, O., Yılmaz, M., Şenavcı, H. V., Kılıçoğlu, T., & Selam, S. O. (2021). Analysis of the Most Precise Light Curves of HAT-P-36 Detrended from Spot Signals. *AcA*, 71, 223-242. DOI

19. Aladağ, Y., Akyüz, A., Baştürk, Ö., Aksaker, N., **Esmer, E. M.**, & Yalçınkaya, S. (2021). Analysis of HAT-P-16b and TrES-3b Exoplanets by the Transit Timing Variations Method. *TJAA*, 2, 28-37. Link

20. Kane, S. R., Yalçınkaya, S., Osborn, H. P., Dalba, P. A., Nielsen, L. D., Vanderburg, A., Močnik, T., Hinkel, N. R., Ostberg, C., **Esmer, E. M.**, et al. (2020). Transits of Known Planets Orbiting a Naked-eye Star. *AJ*, 160, 129. DOI

21. Baştürk, Ö., Yalçınkaya, S., **Esmer, E. M.**, Tanrıverdi, T., Mancini, L., Daylan, T., Southworth, J., & Keten, B. (2020). A holistic and probabilistic approach to the ground-based and spaceborne data of HAT-P-19 system. *MNRAS*, 496, 4174-4190. DOI

22. Baştürk, Ö., & **Esmer, E. M.** (2018). Orbital Period Variations in the NY Vir System, Revisited in the Light of New Data. *OAst*, 27, 14-18. DOI

23. Selam, S. O., **Esmer, E. M.**†, Şenavcı, H. V., Bahar, E., Yörükoğlu, O., Yılmaz, M., & Baştürk, Ö. (2018). A simultaneous spectroscopic and photometric study of two eclipsing binaries: V566 Oph and V972 Her. *Ap&SS*, 363, 34. DOI

24. Pribulla, T., Vaňko, M., et al. (including **Esmer, E. M.**) (2012). The Dwarf project: Eclipsing binaries - precise clocks to discover exoplanets. *AN*, 333, 754-766. DOI

Submitted and Under Review

25. **Esmer, E. M.**, Daylan, T., Lin, Z., Kane, S. R., Winn, J. N., et al. (under review, *AJ*). A Revised Physical Architecture for the TOI-1233 Planetary System.

26. Sertkan, E., Baştürk, Ö., **Esmer, E. M.**, Akar, F., & Güler, B. (under review, *MNRAS*). The Eclipse Timing Puzzle of DW UMa: Unstable Multi-Companion Models and a Magnetic-Activity Interpretation.

27. Whitsett, N., Daylan, T., Livingston, J., **Esmer, E. M.**, et al. (under review, *AJ*). The SPACE Program. III. Transmission Spectroscopy and Dynamical Stability Analysis of TOI-1410 b.

28. Özavcı, İ., & **Esmer, E. M.** (submitted, *Turk J Phys*). Photometric, Spectroscopic, and Eclipse-Timing Analysis of KK Draconis.

Conference Proceedings and Other Publications

29. Sertkan, E., Baştürk, Ö., **Esmer, E. M.**, Akar, F., & Güler, B. (2025). A catalog of exoplanets around post-common envelope eclipsing binaries: CuPS-ETV. *CoSka*, 55, 301-306. DOI

30. Akar, F., Baştürk, Ö., **Esmer, E. M.**, Sertkan, E., Güler, B., & Bayram, M. B. (2025). Orbital analysis of additional bodies around eclipsing binaries HT Vir and MR Del. *CoSka*, 55, 286-294. DOI

31. Güler, B., Baştürk, Ö., **Esmer, E. M.**, Sertkan, E., & Akar, F. (2025). ObserPy: A tool for efficient observation planning in astronomy. *CoSka*, 55, 466-469. DOI

32. **Esmer, E. M.**, Baştürk, Ö., Selam, S. O., Akar, F., Sertkan, E., Güler, B., & Yalçınkaya, S. (2024). Eclipse timing variations of evolved eclipsing binaries: potential targets for meter-sized telescopes in the light of TESS observations. *CoSka*, 54, 228-233. DOI

33. Yalçınkaya, S., **Esmer, E. M.**, & Baştürk, Ö. (2024b). ObsMap: Preparing observing maps with the best comparison stars for photometry. *CoSka*, 54, 22-28. DOI

34. **Esmer, E. M.**, Baştürk, Ö., & Selam, S. O. (2023). Orbital Stabilities of Exoplanet Systems Detected with Eclipse Timing Variation Method. *TJAA*, 4, 102-107. (in Turkish) DOI

35. Demir, E., Baştürk, Ö., **Esmer, E. M.**, Şenavcı, H. V., & Bahar, E. (2023). The Potential of The Cataclysmic Variable DW UMa to Host Planets. *TJAA*, 4, 401-405. (in Turkish) DOI

36. Yörükoğlu, O., Şenavcı, H.V., Yılmaz, M., Selam, S.O., Baştürk, Ö., Kılıçoğlu, T., Özavcı, İ., **Esmer, E. M.**, Bahar, E., & Yalçınkaya, S. (2023). T80 Prof. Dr. Berahitdin Albayrak Telescope and Focal Plane Instruments. *TJAA*, 4, 294-299. (in Turkish) DOI

37. Baştürk, Ö., **Esmer, E. M.**, et al. (2023). Exoplanet Discovery with the Timing Technique. *TJAA*, 4, 83-89. (in Turkish) DOI

38. Baştürk, Ö., **Esmer, E. M.**†, Demir, E., & Selam, S. O. (2023). Eclipse Timing Variations Observed in PCEB Systems. *BSRSL*, 92(2), 8–19. *(Co-first author)* DOI

39. Baştürk, Ö., **Esmer, E. M.**, Torun, Ş., Yalçınkaya, S., El Helweh, F., Karamanlı, E., Öncü, M., Albayrak, H. Ö., Akram, F. A. M., Kahraman, M. G., Sufi, S., Üzümcü, M., & Davoudi, F. (2019). Transit timing variations of five transiting planets. *AIPC*, 2178, 030019. DOI

40. Bahar, E., Yörükoğlu, O., **Esmer, E. M.**, et al. (2017). Times of Minima of Some Eclipsing Binaries. *IBVS*, 6209, 1. DOI

OBSERVING PROGRAMS AND OBSERVATORY OPERATIONS

- Observer, Keck Planet Finder Community Cadence 2025–2026
  Keck I 10 m; 10 nights of extreme-precision radial-velocity observations
- Co-I, *Refining the Core Mass Fraction of HD 93963 A b* 2026B
  NSF NOIRLab Observing Program 2026B-502842, NEID on the WIYN 3.5 m (12.7 hr)
- Co-I, *High Resolution Spectral Observations of HW Virgo* 2024
  Nordic Optical Telescope (NOT), FIES Fast-Track service program 69-407 (3.3 hr)
- PI, ground-based observing programs 2009–2026
  - **148 nights across 18 accepted projects** at Ankara University and TÜBİTAK National Observatories
  - Photometry: 127 nights (T35, T40, T100); spectroscopy: 21 nights (T80)
  - Binary stars and exoplanets; personally conducted most observations and coordinated others with collaborators
- Co-I, additional observing programs at Ankara University Observatory 2009–2024
- Technical Team Member, Ankara University Observatory 2015–2022
  Supported telescope installation, maintenance, observing operations, and student training.

TEACHING EXPERIENCE

Instructor of Record (full-semester courses)

- Numerical Analysis in Astronomy I, Ankara University Fall 2023
- Numerical Analysis in Astronomy II, Ankara University Spring 2023, 2024
  Python-based numerical methods for astronomy, from introductory programming to research-grade scientific tools.

Teaching Assistant 2015–2024 (excluding Fall 2018 and Spring 2019)

- Numerical Analysis in Astronomy I, Ankara University Fall 2016–2022
- Numerical Analysis in Astronomy II, Ankara University Spring 2015–2022
- Practical Astronomy, Ankara University Spring 2018–2024
- Observational Astronomy, Ankara University Spring 2015–2018, 2020

Guest Lecturer

- Ampersand: Gateway Expeditions Into Exoplanets, 2024, 2025
  Department of Physics, Washington University
- Observational Instruments, Ankara University 2016

Observatory Instructor 2015–2022 (excluding Fall 2018 and Spring 2019)

- Conducted regular scientific observations and provided hands-on training in photometric and spectroscopic observing techniques for undergraduate and graduate students.
- Reinforced classroom instruction, mentored students in observational astronomy, and provided individualized academic and technical guidance.

Curriculum and Educational Development

- ExoCore Open Science Curriculum (NASA's Transform to Open Science) 2025
  Developed interactive Jupyter-based modules on celestial dynamics for an open-access curriculum that lowers the entry barrier to exoplanet research for students and early-career researchers.
- Curriculum Development and Revision Committee, Ankara University 2018
  Contributed the computational and statistical methods component to the undergraduate curriculum revision.

RESEARCH MENTORING

Mentored 16 students (undergraduate through PhD) at five institutions, resulting in 12 student-led papers (2 under review), and continued mentoring several through their own PhD research.

- **Md Abdullah Al Zaman** (PhD Student, University of Kansas) – Al Zaman et al. (2026).
- **Maleah Rhem** (PhD Student, University of Kansas) – S-type planet stability (in progress).
- **Aavik Wadivkar** (Undergraduate, Washington University in St. Louis).
- **Peifeng Peng** (MSc Student, Washington University in St. Louis).
- **Nathan Whitsett** (PhD Student, Washington University in St. Louis) – Whitsett et al. (under review).
- **Selçuk Yalçınkaya** (Undergraduate → PhD, Ankara University) – Yalçınkaya et al. (2024a, 2024b).
- **Anıl Temelci** (Undergraduate → PhD Student, Ankara University) – Temelci et al. (2026).
- **Furkan Akar** (Undergraduate → PhD Student, Ankara University) – Akar et al. (2025).
- **Ezgi Sertkan** (Undergraduate → PhD Student, Ankara University) – Sertkan et al. (2025; under review).
- **Barış Güler** (Undergraduate → MSc, Ankara University) – Güler et al. (2025).
- **Furkan Tomak** (Undergraduate → Industry, Ankara University) – Astrophotography project.
- **Oğuzhan Karadeniz** (Undergraduate → Industry, Ankara University) – Astrophotography project.
- **Onur Yörükoğlu** (MSc → PhD Student, Ankara University).
- **Eylül Demir** (MSc, Ankara University) – Demir et al. (2023).
- **Yasemin Aladağ** (MSc, Çukurova University) – Aladağ et al. (2021).
- **Fatemeh Davoudi** (PhD, University of Zanjan; official thesis advisor, 2021) – Davoudi et al. (2021).

PROFESSIONAL ACTIVITIES

Peer Review and Academic Evaluation

- NOIRLab NN-EXPLORE Time Allocation Committee 2026
- RTT150 Time Allocation Committee, Turkish National Observatories 2026
- Reviewer, AAS Chambliss Astronomy Achievement Student Awards 2025
- Edwin Thompson Jaynes Fellowship Selection Committee, Washington University 2024
- Grant proposal reviewer, National Science Centre Poland (OPUS-26) 2024
- Journal referee (13 reviews): AJ, MNRAS, Ap&SS, RASTI, PASA and EPJC

Research Collaborations and Working Groups

- Lazuli Space Observatory (Schmidt Sciences): Transiting Exoplanet Science Case Since 2026
  Occurrence-rate ($\eta_\oplus$) estimates for Earth-like planets
- ExoLab Research Group (PI: Ian Crossfield), University of Kansas Since 2026
- Gaia Follow-up Observing Program (GFOP) Since 2026
- TESS Follow-up Observing Program (TFOP) Since 2025
- Keck Planet Finder (KPF) Observers Group Since 2025
- Vera C. Rubin Observatory LSST Science Collaborations Since 2025
  Transients and Variable Stars (TVS); Stars, Milky Way & Local Volume (SMWLV)
- PLATO Working Group WP 112510: Photometric Detection of Circumbinary Planets Since 2023
- Astromusers Research Group (PI: Tansu Daylan), Washington University in St. Louis 2024–2026
- Center for Physics (CFisUC), University of Coimbra, Portugal 2018–2019

Scientific Organization and Service

- Session Organizer and Host, AstroCoffee Seminar Series, University of Kansas 2026
- SOC, IOTA/ME Workshop on Binaries and Exoplanet Transits, Çukurova University 2020
- SOC/LOC, IOTA/ME Workshop on Exoplanet Transit Observations, Ankara University 2018

PROFESSIONAL MEMBERSHIPS

- American Astronomical Society (AAS) Since 2024
- Division for Planetary Sciences of the AAS Since 2024
- International Astronomical Union (IAU) Since 2022
- European Astronomical Society (EAS) Since 2022
- Turkish Astronomical Society (TAD) Since 2022

INVITED TALKS AND SEMINARS

Scientific Talks and Seminars

1. **Characterizing the Multiplanetary System TOI-1233**
   KU Astro/Space Seminar, University of Kansas, Lawrence, KS, USA, Apr 17, 2026.
2. **Circumbinary Planets and Brown Dwarfs from TESS Eclipse Timing Variations**
   TESS Science Talk Series, MIT, Cambridge, MA, USA, Feb 18, 2026.
3. **Searching for Circumbinary Planets and Brown Dwarfs with TESS**
   Structure and Evolution of Astronomical Objects Workshop, Ege University, Turkey, Dec 3, 2025.
4. **Searching for Circumbinary Planets Using Eclipse Timing Variations**
   WUCAP Seminar Series, Washington University in St. Louis, MO, USA, Oct 10, 2025.
5. **Finding Circumbinary Planets Using Binary Star Eclipses**
   WUCAP Seminar Series, Washington University in St. Louis, MO, USA, Nov 22, 2024.
6. **Eclipse Timing Variations of HW Vir-type Binaries**
   Gr@v Seminar, University of Aveiro, Portugal, May 30, 2018.
7. **Searching for Circumbinary Planets in Eclipse Timing Variations**
   9th Advanced Astrophysics Workshop of Maragha, Iran, Aug 13–17, 2017.

General Astronomy Talks and Lectures

1. **What Eclipsing Binaries Can Tell Us About Their Hidden Worlds**
   St. Louis Astronomical Society Meeting, St. Louis, MO, USA, May 15, 2026.
2. **Discovery of New Worlds**
   Space Week, Physics Research Society, Ankara University, Ankara, Turkey, May 24, 2024.
3. **Sun and the Solar System**
   AESS Space and Aerospace Summit, Abdullah Gül University, Kayseri, Turkey, Dec 15, 2022.
   Teacher Training Seminars, Ankara Provincial Directorate of Education, Turkey, Dec 13, 2022.
4. **Discovery of Two Exoplanets in the Kepler-451 Binary System**
   AESS Space Seminar, Abdullah Gül University, Kayseri, Turkey, Jul 18, 2022.
   ATLAS Space and Aerospace Society, Atatürk University, Erzurum, Turkey, Mar 26, 2022.
   GUHEM – Gökmen Space and Aviation Training Center, Bursa, Turkey, Mar 19, 2022.

SELECTED SCIENTIFIC PRESENTATIONS

1. **A TESS Survey for Circumbinary Planets and Brown Dwarfs**
   247th Meeting of the American Astronomical Society, Phoenix, AZ, Jan 4–8, 2026.
2. **Circumbinary Planets and Brown Dwarfs: Architectures, Detection Challenges, and Population Constraints**
   Mid-American Regional Astrophysics Conference, University of Missouri, Columbia, MO, Dec 4–5, 2025.
3. **Constraining the Occurrence of Circumbinary Planets Through Eclipse Timing Variations**
   Great Lakes Exoplanet Area Meeting, University of Wisconsin–Madison, Madison, WI, Nov 6–7, 2025.
4. **A TESS Survey for Circumbinary Planets and Brown Dwarfs**
   Washington University Physics Research Symposium, St. Louis, MO, Oct 31, 2025.
5. **Constraining the Occurrence of Circumbinary Planets Through Eclipse Timing Variations**
   2025 NOIRLab Science Conference: The Solar System in Context, Tucson, AZ, Sep 29–Oct 2, 2025.
6. **Characterizing Circumbinary Planet Populations with Multi-Method Surveys**
   McDonnell Center for the Space Sciences 50th Anniversary Symposium, St. Louis, MO, May 20–22, 2025.
7. **Circumbinary Planet Occurrence via Eclipse Timing Variations**
   245th Meeting of the American Astronomical Society, National Harbor, MD, Jan 12–16, 2025.
8. **Circumbinary Planet Occurrence via Eclipse Timing Variations**
   Mid-American Regional Astrophysics Conference, University of Kansas, Lawrence, KS, Dec 5–6, 2024.
9. **Circumbinary Planet Occurrence via Eclipse Timing Variations**
   Washington University Physics Research Symposium, St. Louis, MO, Nov 20, 2024.
10. **The TESS Spotlight on Detached Binary Systems via Eclipse Timings**
    TESS Science Conference III, MIT, Cambridge, MA, Jul 29–Aug 2, 2024.
11. **Detecting Eclipse Timing Variation Planets with Other Methods**
    Sagan Summer Workshop: Advances in Direct Imaging, Caltech, CA, Jul 22–26, 2024.
12. **The TESS Spotlight on Detached Binary Systems via Eclipse Timings**
    Emerging Researchers in Exoplanet Science Symposium IX, Cornell University, Ithaca, NY, Jul 10–12, 2024.
13. **Eclipse Timing Variations of Evolved Eclipsing Binaries: Potential Targets for Meter-sized Telescopes in the Light of TESS Observations**
    Observing Techniques, Instrumentation and Science for Metre-class Telescopes III, Slovakia, Sep 11–15, 2023.
14. **Orbital Stability of Exoplanetary Systems Discovered via the Eclipse Timing Variation Method**
    22nd National Astronomy Congress, İzmir, Turkey, Sep 6–8, 2022.
15. **Eclipse Timing Variations**
    IOTA/ME 2nd Workshop on Binaries and Exoplanet Transits, Çukurova Univ., Turkey, Feb 4–7, 2020.
16. **The NY Vir System Revisited in the Light of New Data**
    9th Meeting on Hot Subdwarfs and Related Objects, Hendaye, France, Jun 23–28, 2019.
17. **Stability of NY Virginis System in the Light of New Eclipse Timing Data**
    Planetary Dynamics Conference, Max Planck Institute for Astronomy, Heidelberg, Germany, Jun 3–7, 2019.
18. **Data Reduction of a Photometric Transit Observation**
    IOTA/ME Photometric Observations of Exoplanet Transits Workshop, Ankara University, Turkey, Oct 15–18, 2018.
19. **Preliminary ETV Analysis of HW Vir: Bayesian Approach**
    Summer School on Astronomical Data Analysis (ADAIX), Valencia, Spain, May 20–25, 2018.
20. **Re-Investigating the Eclipse Timing Variation of 2M1938+4603**
    8th International Workshop on Occultation and Eclipse, Istanbul, Turkey, Mar 1–2, 2018.

OUTREACH

Public Engagement and Science Communication

- Science Communicator, SciFest, Saint Louis Science Center, St. Louis, MO May 30, 2026
- Organizer, Astronomy on Tap – St. Louis, MO 2024–2026
- Social Media Editor, Ankara University Observatory (AUO) 2018–2024
- Organizer and Instructor, Public Events of AUO 2015–2024
- Instructor, School Visits to AUO 2015–2024
  Astronomy education for primary – secondary school students, including groups from disadvantaged schools.
- Organizer and Instructor, Public Events on Special Celestial Events, AUO 2007–2024
- Coordinator and Editor, Annual Celestial Events Calendar, AUO 2015–2024
- Moderator and Speaker, Online Astronomy Outreach Events, AUO 2019–2022
- Instructor, AUO Summer Schools 2015–2019
- Task Coordinator, Public Outreach Events, AUO 2015–2018
- Instructor, Astronomy Festivals in Turunç, ITAP 2011
  Provided astronomy instruction and educational activities for students from disadvantaged schools under TÜBİTAK Science in Society Project 111B124.
- Founding Member, Astrobiology Journal Club, Ankara, Turkey 2010
- Organizer, International Year of Astronomy 2009 Events, AUO 2009
- Member, Ankara University Astronomical Research Society 2007–2009

Popular Science Publications

- Article on the discovery of two planets in the Kepler-451 system, *Bilim ve Teknik* 2019
- Three popular science articles, TÜBİTAK *Bilim Genç*: TRAPPIST-1, PicSat, TESS 2018–2019

Selected Media Coverage and Interviews

- Washington University in St. Louis (2025). Unveiling Exoplanets: Ekrem Esmer's Quest.
  Researcher profile.
- TRT Haber (2022). Turkish Astronomers Discover Two Planets.
  National news coverage.
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