

CURRICULUM VITAE

- 1 **Name** : Serkan SAHIN
- 2 **Date of Birth** :
- 3 **Title** : Assistant Professor
- 4 **Education** :

Degree	Area	University	Year
BS	Physics	Bogazici University, Turkey	2004
MS	Physics	Bogazici University, Turkey	2006
PhD	Physics	University of Miami, US	2012

5 Academic Titles

- Date of Asst. Prof. title obtained:** May. 05, 2022 – TED University, Electrical and Electronics Eng.
Date of Assoc. Prof. title obtained: –
Date of Prof. title obtained: –

6 Supervised MS and Ph.D. Theses

6.1 MS Theses

6.2 Ph.D. Dissertations

7 Publications

7.1 Articles published in international peer-reviewed journals (SCI & SSCI & Arts and Humanities)

[J13] **Sahin, S.**, Zhang, M., Chen, Y., & Cai, Y. (2018). Transmission of a polychromatic electromagnetic multi-Gaussian Schell-model beam in an inhomogeneous gradient-index fiber. *Journal of the Optical Society of America A*, 35(9), 1604-1611.

[J12] Korotkova, O., **Sahin, S.**, & Shchepakina, E. (2014). Light scattering by three-dimensional objects with semi-hard boundaries. *Journal of the Optical Society of America A*, 31(8), 1782-1787.

[J11] Korotkova, O., **Sahin, S.**, & Shchepakina, E. (2012). Multi-Gaussian Schell-model beams. *Journal of the Optical Society of America A*, 29(10), 2159-2164.

[J10] **Sahin, S.**, & Korotkova, O. (2012). Light sources generating far fields with tunable flat profiles. *Optics Letters*, 37(14), 2970-2972.

[J9] **Sahin, S.**, Gbur, G., & Korotkova, O. (2011). Scattering of light from particles with semisoft boundaries. *Optics Letters*, 36(20), 3957-3959.

[J8] **Sahin, S.**, & Korotkova, O. (2011). Crystalline human eye lens' response to stochastic light. *Optics Letters*, 36(15), 2970-2972.

[J7] **Sahin, S.**, Tong, Z., & Korotkova, O. (2010). Sensing of semi-rough targets embedded in atmospheric turbulence by means of stochastic electromagnetic beams. *Optics Communications*, 283(22), 4512-4518.

[J6] **Sahin, S.** (2010). Generalized Stokes parameters in phase space. *Optics Letters*, 35(10), 1704-1706.

[J5] Zhang, G. W., Pu, J. X., **Sahin, S.**, & Korotkova, O. (2009). The spectral degree of cross -polarization of stochastic electromagnetic beams. *Guangzi Xuebao/Acta Photonica Sinica*, 38(8), 2093-2098.

[J4] **Sahin, S.**, Korotkova, O., Zhang, G., & Pu, J. (2009). Free-space propagation of the spectral degree of cross-polarization of stochastic electromagnetic beams. *Journal of Optics A - Pure and Applied Optics*, 11(8).

[J3] **Sahin, S.**, & Korotkova, O. (2009). Effect of the pair-structure factor of a particulate medium on scalar wave scattering in the first Born approximation. *Optics Letters*, 34(12), 1762-1764.

[J2] **Sahin, S.**, & Korotkova, O. (2008). Scattering of scalar light fields from collections of particles. *Physical Review A*, 78(6).

[J1] Ankey, A., **Sahin, S.**, Karanfil, G., & Yazgan, E. (2005). Early phases of different types of isolated neutron star. *International Journal of Modern Physics D*, 14(6), 1075-1082.

7.2 Other articles published in international peer-reviewed journals

7.3 International conference proceedings

[C3] **Sahin, S.**, Gbur, G., & Korotkova, O. (2011). Light scattering from deterministic and random media with semi-soft boundaries. In *Optics InfoBase Conference Papers*.

[C2] **Sahin, S.**, & Korotkova, O. (2009). Fluctuations in the instantaneous Stokes parameters of stochastic electromagnetic beams propagating in the turbulent atmosphere. In *Atmospheric Propagation of Electromagnetic Waves iii* Vol. 7200.

[C1] **Sahin, S.**, & Korotkova, O. (2008). Scattering of stochastic fields from deterministic and random collections of particles. In *Optics InfoBase Conference Papers*.

7.4 International book chapters

7.5 Articles published in national peer-reviewed journals

7.6 National conference proceedings

7.7 Other publications

7.8 Citations

- Google Scholar: citations – 730, h-index – 8
- Web of Science: citations – 612, h-index – 8

8 National & International Projects

9 Administrative Tasks

10 Membership in Scientific Organizations

- American Physical Society (2007–2009),
- AAPT, American Association of Physics Teachers (2007–2012).

11 Awards

- Outstanding Graduate Student, University of Miami, College of Arts and Sciences, 2009,
- Outstanding Teaching Assistant of the year, AAPT, 2009.

12 Fill the following table for the courses that you gave in the last two years of undergraduate and postgraduate level.

Akademic Year	Semester	Course Name	Weekly Hours		Number of Students
			Theoretic	Practical	
2020-2021	Fall				
	Spring	EE 312_01 – Communication Systems I	3	0	30
EE 312_02 – Communication Systems I		3	0	9	
EE 403_01 – Numerical Methods for Engineering		3	0	58	
2019-2020	Fall				
	Spring				

13 Academic Activities

13.1 Scientific meetings/talks

13.2 Session chairing in scientific conferences

13.3 Technical program committee membership in scientific conferences

13.4 Review services in scientific journals/conference proceedings

- Optics Communications,
- Optics Letters,
- Journal of the Optical Society of America A,

14 Work Experience

Title	Company Name	Duration
Assistant Professor	Bursa Orhangazi University	2013 – 2016
Lecturer	University of Miami	2012 – 2013

15 Research Interests

Free Space and Atmospheric Communications, LIDAR, Propagation and Scattering of Optical Light Beams.

16 Contact

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Links: [Department](#), [YOKSIS](#), [Google Scholar](#), [ResearchGate](#), [ORCID](#), [Publons](#)

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