Curriculum Vitae of Muhsin Caner GÖKÇE

Personal Information:

Date of Birth January 1985

Citizenship Turkish

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Title Associate Professor

ORCID https://orcid.org/0000-0003-4465-1983

Education:

Ph.D. (2016) Cankaya University, Electronic and Communication

Engineering, Ankara, Turkey, GPA: 3.88 / 4.

Thesis Title: "Beam Shaping effects on MIMO Free-Space

Optical Communication Systems"

M.Sc. (2012) Ankara University, Electrical and Electronics Engineering,

Ankara, Turkey, GPA: 3.43 / 4.

Thesis Title: "Scintillation Analysis and Evaluation of super

Lorentz-Gaussian Laser Beams for Optical Wireless".

B.Sc. (2010) Cankaya University, Computer Engineering (Double Major),

Ankara, Turkey.

B.Sc. (2009) Cankaya University, Electronic and Communication

Engineering, Ankara, Turkey, GPA 3.60 / 4 High Honour.

Thesis Title: "Target Tracking with Antenna Arrays".

Awards&Achievements

2011-2025 TUBITAK, Incentive Program for International Scientific

Publications.

2015-2016 Teknogirişim Project 2015 (High Data Rate Communication

with Free Space Optics 0448. TGSD.2015) from Ministry of

Science, Industry and Technology.

2014-2017 TUBITAK, Scholarship Program for PhD Students (2211).

2012-2016 Scholarship from Çankaya University for Ph.D. Study.

2006-2009 Scholarship from Çankaya University for Undergrad Study.

| Work Experience: | |
|----------------------|---|
| 2025-2026 | Postdoctoral Researcher, Delft University of Technology, |
| | Department of Aerospace Engineering, Specialized on Laser- |
| | Satellite Communications. |
| 2024-2025 | Postdoctoral Researcher, Delft University of Technology, |
| | Department of Geoscience and Remote Sensing, Specialized |
| | on Laser-Satellite Communications. |
| 2022- | Associate Professor in TED University, Department of |
| | Electrical-Electronics Engineering. |
| 2019-2021 | Assistant Professor in TED University, Department of |
| | Electrical-Electronics Engineering. |
| 2015-2020 | MG Technology - FSO solutions. |
| 2009-2018 | Instructor in Çankaya University, Department of Electronic |
| | and Communication Engineering. |
| Publications: | |
| <u>SCI</u> | |
| [J64] | Muhsin Caner Gökçe, Rudolf Saathof, "Propagation of vortex |
| | beams in atmospheric turbulence for uplink satellite links," |
| | IEEE Transactions on Antennas and Propagation, (Accepted). |
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| | Physica Scripta, vol. 100, no. 12, 125211, December 2025. |
| [J62] | Özden Ergezer, Muhsin Caner Gökçe, and Yahya Baykal, |
| | "Fiber coupling efficiency of vortex beams in underwater |
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| [J61] | Ekin Erdoğdu, Muhsin Caner Gökçe, and Yahya Baykal, |
| | "Scintillation characteristics of annular beam array in |
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Photonic Network Communications, vol. 50, article number 2,

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| | Quantum Electronics, vol. 60, no. 6, pp. 1-8, Dec. 2024, Art |
| (166) | no. 6000208, doi: 10.1109/JQE.2024.3484248. |
| [J55] | Yahya Baykal, Muhsin Caner Gökçe, Yalçın Ata, Hamza |
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atmospheric non-Kolmogorov turbulence," Journal of the

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Conferences

Muhsin Caner Gökçe, Rudolf Saathof, "Effects of Adaptive Optics on Performance of Laser Satellite Communications," Applications of Lasers for Sensing and Free Space Communications (OPTICA 2025), Prague, Czech Republic, 19-23 October, 2025.

Muhsin Caner Gökçe, Rudolf Saathof, "Strehl Ratio Analysis of Vortex Beams in Atmospheric Turbulence for Uplink Satellite Communications," Communications and Observations through Atmospheric Turbulence (COAT 2025), Munich, Germany, 7-9 April, 2025.

Muhsin Caner Gökçe, Yahya Baykal, Yalçın Ata, and Hamza Gerçekcioğlu, "Multimode beam propagation in atmospheric turbulence", NATO Workshop on Light Propagation in Random Media and Impact on Wireless Optical Communications Systems in Evolving Climate Conditions, NATO STO Centre for Maritime Research and

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integralin sembolik çözümü". Çankaya University Symposium

MTS 3, Ankara, pp. 371-380, 2010.

Courses Offered:

Optical Communications: https://www.tedu.edu.tr/sites/default/files/2024-

02/s2324_syllabus_ee416_2.pdf

Digital Logic Design: https://www.tedu.edu.tr/sites/default/files/2024-

03/s2324_syllabus_ee222_01_revised_due_to_holiday_5.pdf

Power System Analysis: https://www.tedu.edu.tr/en/izlence-detail/50137877

Numerical Methods for Engineering: https://www.tedu.edu.tr/izlence-

Undergraduate detail/50115997

Skills:

Computer related

Matlab

• C++, Java

Languages

• English: Advanced