

EDUCATION	<b>Northwestern University</b> , Evanston, IL 2019-2024 (expected) <ul style="list-style-type: none"> <li>• Ph.D. in Applied Physics, <i>GPA:3.84/4.00</i></li> <li>• Advisor: Prof. Prem Kumar.</li> </ul> <b>Koç University</b> , Istanbul, Turkey. 2017-2019 <ul style="list-style-type: none"> <li>• M.Sc., Physics. <i>GPA:3.76/4.00</i>.</li> <li>• Advisor: Prof. Alper Kiraz &amp; Coadvisor: Prof. Ataç İmamoğlu</li> <li>• Thesis:<i>Fluorescence Based Detection of Magnetic Field Effect on Photolyases and Flavin Containing Solutions</i></li> </ul> <b>Bilkent University</b> , Ankara, Turkey. 2012-2017 <ul style="list-style-type: none"> <li>• B.Sc., Electrical and Electronics Engineering. <i>GPA:3.50/4.00</i>.</li> <li>• Minor, Physics. <i>GPA:3.96/4.00</i>.</li> </ul>
WORK EXPERIENCE	<b>Northwestern University</b> , Evanston, IL 2019-Present <ul style="list-style-type: none"> <li>• Graduate Research Assistant Photonic quantum information processes in biological systems and integrated photonics on thin-film lithium niobate.</li> </ul> <b>Koç University</b> , Istanbul, Turkey 2017–2019 <ul style="list-style-type: none"> <li>• Graduate Research Assistant Quantum coherence in radical pair mechanism.</li> </ul> <b>Aselsan</b> , Ankara, Turkey 2016 <ul style="list-style-type: none"> <li>• Summer Intern Design and simulation of microstrip low pass filter at RF.</li> </ul> <b>Advance Research Laboratory, Ankara, Turkey</b> 2016 <ul style="list-style-type: none"> <li>• Summer Intern Pulse compression with Spatial Light Modulator for ultrafast fiber lasers.</li> </ul>
TEACHING EXPERIENCE	<b>Northwestern University</b> 2020-2021 <ul style="list-style-type: none"> <li>• Teaching Assistant GEN ENG 201 - General Engineering 1, EE 221 - Fundamentals of Circuits, EE 202 - Introduction to Electrical Engineering Conducted problem solving sessions for a class of 20, led in lab sessions for circuit building and Matlab simulations, graded lab reports and homework assignments.</li> </ul> <b>Koç University</b> 2017–2019 <ul style="list-style-type: none"> <li>• Teaching Assistant Phys 101 - General Physics, Phys 122 - Physics for Health Sciences Conducted problem solving sessions for a class of 60, led in lab sessions for general physics experiments, graded lab reports and quizzes.</li> </ul>
HONORS AND AWARDS	<ul style="list-style-type: none"> <li>• <b>Northwestern University ECE Department Best Teaching Assistant Award</b> 2021</li> <li>• <b>Koç University Outstanding Teaching Award</b>, Research Grant for excellence and dedication in the teaching responsibilities 2018</li> <li>• <b>Koç University Comprehensive Scholarship</b>, Full Tuition Waiver and stipend during M.S program 2017</li> <li>• <b>Bilkent University High Honor Degree</b> 2017</li> <li>• <b>Turkish Education Foundation(TEV) Outstanding Success Scholarship</b>, Monthly stipend during B.S program - Awarded based on the university entrance exam 2012</li> <li>• <b>Bilkent University Comprehensive Scholarship</b>, Full Tuition Waiver and stipend during B.S program 2012</li> <li>• <b>Nationwide University Entrance Exam(LYS)</b>, Ranked 246th among 1.8 million students 2012</li> </ul>
OUTREACH AND MENTORING	<ul style="list-style-type: none"> <li>• <b>Northwestern Applied Physics Graduate Program Student Council</b> 2021-Present Representing graduate student body in the program, organizing events to help students with their academic skills and improve the community</li> <li>• <b>Northwestern University Applied Physics Graduate Program Diversity, Equity and Inclusion Committee</b> 2022-Present</li> </ul>

Supporting fellow students with different backgrounds. Improving the mentorship program for first-year students.

- **Northwestern University McCormick Graduate Teaching Committee** 2022-Present  
Helping graduate students with their teaching experiences
- **Optica Student Chapter** 2019-Present  
Vice President. Rebranding the chapter.
- **Turkish Education Foundation(TEV) Mentorink Program Mentor** 2022-Present  
Mentor. Helping two female students for their preparation for an academic life

#### TECHNICAL SKILLS

- *Programming Languages*: C/C++, Python, Java, VHDL.
- *Technical Softwares*: MATLAB, LTSpice, PSpice, MPLab X IDE, Eagle, DipTrace, Chimera, HyperChem.
- *Languages*: Turkish (Native), English (Fluent), Spanish (Beginner)

#### REFEREED CONFERENCE PUBLICATIONS

1. HC Baykara\*, E Bıyık\*, **G Gül\***, D Onural\*, AS Öztürk\*, İ Yıldız\* (\*equal contribution). “Real-Time Detection, Tracking and Classification of Multiple Moving Objects in UAV Videos”, *29th IEEE International Conference on Tools with Artificial Intelligence (ICTAI)*, Boston, Massachusetts, USA, Nov. 2017

#### PRESENTATIONS

1. **G Gül**, N Bavili, UM Dikbaş, IH Kavaklı, A İmamoğlu, A Kiraz. Fluorescence-based detection of magnetoreception. *The International OSA Network of Students Conference (IONS)*, Barcelona, Spain. 2019. (Poster)
2. **G Gül**, K Abdelsalam, S Fathpour, KF Lee, GS Kanter, P Kumar. Self-phase modulation in periodically-poled thin-film lithium niobate waveguides. *European Physical Journal Web of Conferences* 267, 02022, Hannover, Germany. 2022. (Poster)
3. **G Gül**, K Abdelsalam, S Fathpour, KF Lee, GS Kanter, P Kumar. Effect of periodic poling on self-phase modulation in thin-film lithium niobate waveguides. *Frontier in Optics FW7E.5*, Rochester, New York, USA. 2022.