# **Alex Gokan**

Sol Nebraska Ave NW, Washington, DC	⊠ ag6832a@american.edu	🔗 agokan.com	<b>O</b> AlexGokan
Current Position			
<b>American University</b> , Washington DC Graduate Program: Behavior Cognition and No PhD Student, first year Advisor: Dr Arthur Shapiro	euroscience		2024 - Present
<b>Research Interests:</b> Color vision, retinal com and spatial computing	putation, photometry, hyperspe	ectral imaging, virtual ı	reality
Education			
<b>Purdue University</b> , West Lafayette IN BS in Computer Engineering			2016 - 2020
Work Experience			
<ul> <li>L3Harris Technologies, Imaging Science Engineer (secret/interim TS clearance)</li> <li>Developed image processing algorithms for defense technology, visible, infrared, and hyperspectral image types.</li> </ul>			Los Angeles, CA 2020 - 2024

 Developed new joint image format/programming language specification for Air Force's new raster image processing requirements

## Publications

Z Li, W Jiang, D Kenzhebalin, A Gokan, J Allebach, "Intrinsic Signatures for Forensic Identification of SOHO Inkjet Printers", in Printing for Fabrication, Dresden, Germany, September 2018 DOI:10.2352/ISSN.2169-4451.2018.34.231

#### Posters

A Gokan, B Worthmann, "GPS Correction for Ground-Penetrating Radar", LLNL Summer Student Poster Symposium, Livermore CA, August 2019

A Gokan, Z Xu, "Machine Learning for Forensic Printer Identification", Purdue Undergraduate Research Poster Session, West Lafayette IN, April 2018

### **Previous Research Experience**

Lawrence Livermore National Laboratory Intern: Computational Engineering Supervisor: Dr. Brian Worthmann

- Created new method of geospatially correlating mine-like objects with ground-penetrating-radar images and detections for improved performance characterization methods and visualization
- Developed algorithm for correcting GPS measurements to enable characterization of ground penetrating radar (GPR) direct detection performance

Purdue University

Supervisor: Professor Chih-Chun Wang

• Created testbed for interfacing with the existing 5G channel simulation tool NYUSIM, for simulating the effects of various transmitter geometries

Summer 2020 Summer 2019

Winter 2019

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Purdue University

Supervisor: Professor Jan Allebach

2017-2019 Part-time

• Created hand-crafted features for use in comparison to neural network for inkjet printer identification project, in order to aid detection of currency forgery

### Teaching Experience \_\_\_\_\_

American University

TA for Computer Science 121, **Creative Coding** Introductory programming course for first-year computer science majors and advanced non-majors. Taught with P5.js

TA for Psychology 321, Sensation and Perception

Purdue University Aerial Robotics Club Introductory programming and computer vision class, taught for first year electrical engineering majors to get up to speed on contributing to the robotics team.

Taught with Python and OpenCV

### Skills \_

Git/version control, C, C++, Python, OpenCV, MATLAB, Unity, Blender Experiments written and deployed with PsychoPy, PsychoJS, and Pavlovia