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## AP-S Young Professional Ambassador Program - Update

Qammer H. Abbasi |

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### 1. Introduction

In 2021, IEEE AP-S Young Professional Committee started the new initiative IEEE AP-S Young Professional (YP) Ambassador Program, which is now in its second year. Objective of this program is to inspire and inform AP-S Young Professionals on a variety of topics both technical and non-technical to enhance their interest and engagement in the field of Antennas and Propagation by delivering the talks at various chapters/sections "on-demand" virtually, in addition to getting involved in various IEEE AP-S YP activities. The call for nominations is scheduled to open in July with deadline to submit nominations by end of October of the same year. To be eligible, candidate should be an IEEE AP-S member, belong to IEEE YP Group as defined by IEEE (IEEE members and volunteers who have graduated from their first professional degree within the past 15 years) and 5 years or more experience reflecting professional maturity. The call for candidates will open once a year and Ambassadors are selected for a term of 1 year. The one-year term of selected candidate starts from January of following year. *All new Ambassadors are required to give at least two talks during the tenure of one year.*

### 2. Selection Process

IEEE AP-S YP Sub-committee was formed chaired by Qammer H. Abbasi and with the members, Nelson Foneseca, Asimina Kiourti, Debdeep Sarkar and Jiang Zhu to manage the nomination and selection process of the YP Ambassadors. Each candidate was asked to submit the nomination package with four mandatory files to the chair including, resume (2 pages maximum), title (s) of the maximum two talks, a brief writeup on benefits of the talk proposed to the AP-S YP Community and a 5 min short video sample of any proposed talk. Using the nomination package, each candidate was reviewed by two independent sub-committee members and given a score against three criteria's i.e., presentation skills (35%), a growing trajectory of accomplishment in the field of Antennas and Propagation (35%) and a quality and relevance of proposed lectures to YP (30%). The final weighted average score for each candidate was compiled and the selected candidates nomination was put forward to IEEE AP-S YP committee for the approval of final candidate list based on the score.

### 3. Accomplishments of 2022 AP-S YP Ambassadors

For the year 2022, a total of 12 Ambassadors were selected [1] and are shown in Figure 1. They successfully gave more than 50 talks virtually at various IEEE Sections and AP-S Chapters across the world. Distribution of their talks at chapters at various countries is shown in Figure 2. In addition, Ambassadors led various activities at IEEE Antennas and Propagation symposium held in Denver, Colorado (July 10-15th, 2022) [2]. They also contributed to AP-S Educational Resource Center [3-5].

## 2022 IEEE AP-S YP Ambassadors



Figure 1: 2022 IEEE AP-S Young Professional Ambassadors

## 2022 IEEE AP-S YP Ambassador Activities

- 50+ Talks at various AP-S Chapters

Talks By Country	
Australia	2
China	12
India	14
Ireland	1
Malasia	4
Pakistan	6
Singapore	2
South Africa	1
Spain	1
Thailand	1
UK	3
USA	4

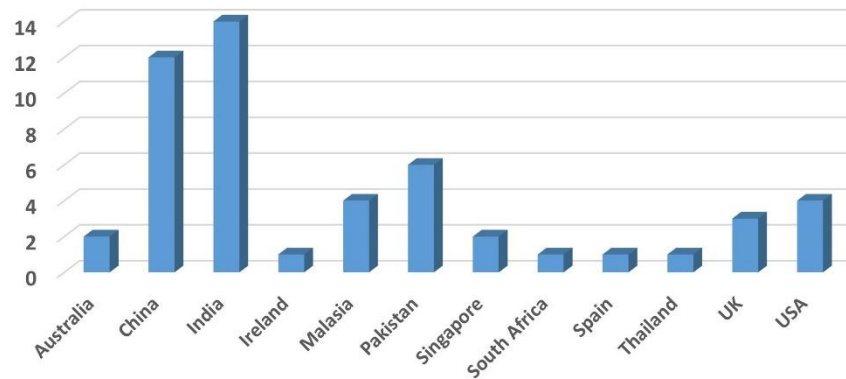


Figure 2: Distribution of talks given by 2022 AP-S YP Ambassadors across the world.

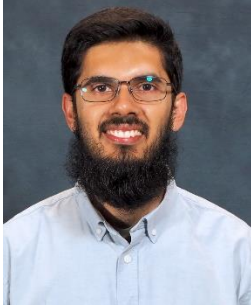
### 4. IEEE Antennas and Propagation Society Young Professional of the Year Award

IEEE Antennas and Propagation Society established a new award called, “*IEEE Antennas and Propagation Society Young Professional of the Year Award*” to recognize one Young Professional (YP) member of the IEEE Antennas and Propagation Society for significant service to AP Society during the one-year term as IEEE AP-S Young Ambassador, which includes: (1) Number of Technical and Nontechnical Talks at IEEE Sections and AP-S Chapters as well as quality of the talks, visibility, and attendance at the talks and (2) Participation in other YP Activities including organization of YP events. This award carries a cash prize of US\$2,000 and will be presented at the annual IEEE International Symposium on Antennas and Propagation. More details are at [6].

### 5. AP-S YP Ambassadors for 2023

We received in total 26 Nominations from more than 10 countries with candidates from both academia, government labs and industry. We selected top 10 candidates as 2023 AP-S YP

Ambassadors. These included Ambassadors from 7 countries, including Australia, China, Denmark, Ireland, South Korea, UK and USA, 3 women and 2 from the government labs. Below is the list of 10 selected AP-S YP Ambassadors for 2023 sorted according to their last names [7]:

**Hasan Abbas**

Lecturer

James Watt School of Engineering

University of Glasgow

United Kingdom

Email: [Hasan.Abbas@glasgow.ac.uk](mailto:Hasan.Abbas@glasgow.ac.uk)Web: <https://www.gla.ac.uk/schools/engineering/staff/hasanabbas/>LinkedIn: <https://www.linkedin.com/in/hasantahirabbas/>

**Talk 1:** Electromagnetic Methods at the Nanoscale – Current State of the art

**Talk 2:** Application of nanoscale electromagnetics in biomedical applications

**Gangil Byun**

Associate Professor

Department of Electrical Engineering (EE)

Ulsan National Institute of Science and Technology (UNIST)

South Korea

Email: [byun@unist.ac.kr](mailto:byun@unist.ac.kr)Web: <http://byun.unist.ac.kr>LinkedIn: <https://www.linkedin.com/in/kylebyun>

**Talk 1:** Huygens' Metasurfaces for Wide-Angle Refraction: Theory, Design, Analysis, and Physical Implementation

**Talk 2:** Recent Advances in Display-Integrated Millimeter Wave Antennas

**Sumitra Dey**

Hardware Development Engineer

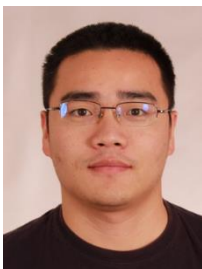
Amazon Lab126

California, USA

Email: [deysumiz@amazon.com](mailto:deysumiz@amazon.com)LinkedIn: <https://www.linkedin.com/in/sumitradey>

**Talk 1:** Relevance of Characteristic Mode Analysis in Plasmonic Material Based Nanoantenna Optimization

**Talk 2:** Multiscale Modelling of Carbon Nanotube Reinforced Nanocomposites: Opportunities and Challenges

**Wei Fan**

Associate professor

Head of “wireless propagation and over-the-air testing” research group

Department of Electronic Systems,

Aalborg University,

Denmark

Email: [wfa@es.aau.dk](mailto:wfa@es.aau.dk)Web: <https://vbn.aau.dk/en/persons/125814>LinkedIn: <https://www.linkedin.com/in/weifan1987/>

**Talk 1:** Radio Channel Sounding, Modelling and Emulation for 5G and Beyond Systems

**Talk 2:** Over-the-air testing (OTA) of 5G radios: Principles and Challenges

**Gaurangi Gupta**

Post-Doctoral Researcher  
NASA Jet Propulsion Laboratory/Caltech  
USA  
Email: [gaurangi.gupta@jpl.nasa.gov](mailto:gaurangi.gupta@jpl.nasa.gov)  
LinkedIn: <https://www.linkedin.com/in/gaurangigupta25/>

**Talk 1:** Innovative Antenna Solutions for Satellite Telecom, Radio Telescope and Radars

**Talk 2:** Lunar Crater Radio Telescope on the Far-side of the Moon

**Hui Li**

Professor  
School of Information and Communication Engineering  
Dalian University of Technology  
China  
Email: [hui.li@dlut.edu.cn](mailto:hui.li@dlut.edu.cn)  
Web: <http://faculty.dlut.edu.cn/huili/en/index.htm>  
LinkedIn: <https://www.linkedin.com/in/hui-li-78ba95257/>

**Talk 1:** Theory of Characteristic Mode and its Application in Antenna Design

**Talk 2:** Designing Multiple Antennas in Terminal Devices

**Saptarshi Mukherjee**

Research Scientist  
Lawrence Livermore National Laboratory (LLNL)  
USA  
Email: [mukherjee5@llnl.gov](mailto:mukherjee5@llnl.gov)  
Web: <https://people.llnl.gov/mukherjee5>  
LinkedIn: <https://www.linkedin.com/in/saptarshi-mukherjee-5a55bb7a/>

**Talk 1:** Electromagnetic Diagnostics for In-situ Metal Additive Manufacturing

**Talk 2:** Electromagnetic Nondestructive Evaluation: Breaking the diffraction limits

**Syed Akbar Raza Naqvi**

Post-Doctoral Research Fellow,  
School of Information Technology & Electrical Engineering  
The University of Queensland  
Australia  
Email: [s.naqvi@uq.edu.au](mailto:s.naqvi@uq.edu.au)  
Web: <https://researchers.uq.edu.au/researcher/33730>  
LinkedIn: <https://www.linkedin.com/in/syed-akbar-raza-naqvi/>

**Talk 1:** Dielectric Properties of Healthy Human Skin and Challenges towards Dermal Anomaly Detection using Electromagnetic Techniques

**Talk 2:** Skin Cancer Detection: Feasibility study across the Microwave Frequency band

**Adam Narbudowicz**

Senior Research Fellow

Trinity College Dublin, The University of Dublin  
IrelandEmail: [narbudoa@tcd.ie](mailto:narbudoa@tcd.ie)Web: <https://connectcentre.ie/people/Adam-Narbudowicz>LinkedIn: <https://connectcentre.ie/people/Adam-Narbudowicz>**Talk 1:** Securing IoT: Antennas as Padlocks, Propagation as a Key**Talk 2:** Machine learning + mm-Waves = biodiversity sensor**Chaoyun Song**

Assistant Professor

School of Engineering and Physical Sciences  
Heriot-Watt University

United Kingdom

Email: [c.song@hw.ac.uk](mailto:c.song@hw.ac.uk)Web: <https://sites.google.com/view/chaoyunsong/home>LinkedIn: <https://www.linkedin.com/in/chaoyun-song-b3925386/>**Talk 1:** "Magic" Antenna Engineering for Sustainable, Flexible and Stretchable Electronics**Talk 2:** How to Address the Net Zero Target via Rectifying Antennas?

## 6. Call for Action

All AP-S chapter chairs are encouraged to contact IEEE AP-S YP ambassador directly for inviting them to deliver talk or speak on the event. Chapter chairs can also contact Qammer H. Abbasi, subcommittee chair at: [qammer.abbasi@glasgow.ac.uk](mailto:qammer.abbasi@glasgow.ac.uk).

## 7. AUTHOR INFORMATION

Qammer H. Abbasi ([qammer.abbasi@glasgow.ac.uk](mailto:qammer.abbasi@glasgow.ac.uk)) is a reader with the James Watt School of Engineering, as deputy head of the Communication Sensing and Imaging group and deputy theme lead, Quantum and Nanotechnology at the Advance Research Centre, both at the University of Glasgow, Glasgow, g41 3ty, U.K. He received the Sensor 2021 Young Scientist Award. He is a Senior Member of IEEE and subcommittee chair of the IEEE Young Professional Ambassador Program.

## 8. References:

- [1] Q. H. Abbasi, "AP-S Young Professional Ambassador Program [Young Professionals]," in IEEE Antennas and Propagation Magazine, vol. 64, no. 2, pp. 79-105, April 2022, doi: 10.1109/MAP.2022.3145720.
- [2] M. Khan, W. Lin and J. Quimby, "AP-S Young Professionals Activities at the 2022 IEEE International Symposium on Antennas and Propagation [Young Professionals]," in IEEE Antennas and Propagation Magazine, vol. 64, no. 6, pp. 108-111, Dec. 2022, doi: 10.1109/MAP.2022.3212269.
- [3] Heinrich Edgar Arnold Laue, "IEEE AP-S Young Professional Ambassador Talk: From Old to New: How to Properly Apply Novel Ideas to a Conventional Research Domain—the Case of

Compressive Antenna Arrays,” <https://resourcecenter.ieeeaps.org/education/rf-and-microwave-systems/APSRFMIC0020.html>

[4] Daniele Inserra, “IEEE AP-S Young Professional Ambassador Talk: Radiative Wireless Power Transfer with Microwave and mm-Wave: Is There Anything Concretely Possible With This Technology?,” <https://resourcecenter.ieeeaps.org/education/rf-and-microwave-systems/APSRFMIC0030.html>

[5] M. Khan and W. Lin, “Interview with 2022 IEEE AP-S Distinguished Achievement Award Winner, Prof. Akhlesh Lakhtakia,” <https://resourcecenter.ieeeaps.org/professional-development/interviews/APSPDINT0000.html>

[6] IEEE Antennas and Propagation Society Young Professional of the Year Award, <https://ieeeaps.org/committees/ypa>.

[7] 2023 IEEE AP-S YP Ambassadors, <https://ieeeaps.org/committees/2023ypa>