FREDERICK UNIVERSITY

# Academic Personnel Short Profile / Short CV

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| **University:** | Frederick University |
| **Surname:** | Vryonides |
| **Name:** | Photos |
| **Rank/Position:** | Associate Professor |
| **School:** | Engineering |
| **Department:** | Electrical Engineering, Computer Engineering and Informatics |
| **Scientific Domain:** | Microwave and Millimeter Waves Circuits |

## Academic qualifications

| Qualification | Year | Awarding Institution | Department | Thesis title (Optional Entry) |
|---|---|---|---|---|
| PhD | 2002 | University of Manchester Institute of Science and Technology (UMIST) | Electrical and Electronic Engineering | Comparative Study of Low-Phase Noise Microwave Oscillators |
| MPhil | 1999 | University of Manchester Institute of Science and Technology (UMIST) | Electrical and Electronic Engineering | Feasibility Study for MMIC Realisation of Branch-Line Couplers |
| BEng | 1998 | University of Manchester Institute of Science and Technology (UMIST) | Electrical and Electronic Engineering | Microstrip Ring Resonators |

## Employment history in Academic Institutions/Research Centers

| Period of employment | | Employer | Location | Position |
|---|---|---|---|---|
| From | To | | | |
| 2022 | Today | Frederick University | Nicosia, Cyprus | Associate Professor |
| 2016 | 2022 | Frederick University | Nicosia, Cyprus | Assistant Professor |
| 2007 | 2016 | Frederick University | Nicosia, Cyprus | Lecturer |
| 2003 | 2007 | Frederick Institute of Technology | Nicosia, Cyprus | Lecturer |

| Key *refereed* journal papers, monographs, books, conference publications etc. | | | | | | |
|---|---|---|---|---|---|---|
| **Ref. Number** | **Year** | **Title** | **Other authors** | **Journal and Publisher / Conference** | **Vol.** | **Pages** |
| 1 | 2024 | A New Class of High-Selectivity Bandpass Filters With Constant Bandwidth and 5:1 Bandwidth Tuning Ratio | S. Arain, A. Quddious, D. Psychogiou and S. Nikolaou, | IEEE Access | 12 | 16489-16497 |
| 2 | 2022 | "Non-Reciprocal Balanced Bandpass Filters With Quasi-Elliptic Response," | D. Simpson, S. Nikolaou and D. Psychogiou | IEEE Transactions on Circuits and Systems II Express Briefs | 69 | 5159-5163 |
| 3 | 2020 | “Dual-Band Compact Rectenna for UHF and ISM Wireless Power Transfer Systems | Abdul Quddious, Salman Zahid, Farooq A Tahir, Marco A Antoniades, Simos Nikolaou | IEEE Transactions on Antennas and Propagation | 69 | 2392-2397 |
| 4 | 2020 | Dynamically Reconfigurable UWB Antenna using a FET Switch Powered by Wireless RF Harvested Energy | Abdul Quddious, Muhammad Ali Babar Abbasi, Marco A Antoniades, Simos Nikolaou | IEEE Transactions on Antennas and Propagation | 68 | 5872-5881 |
| 5 | 2020 | " Demonstration of Reconfigurable BPFs with Wide Tuning Bandwidth Range Using 3λ/4 Open- and λ/2 Short- Ended Stubs | S. Arain, A. Quddious, S. Nikolaou | MDPI Technologies | 8 | |
| 6 | 2019 | Voltage-Double RF-to-DC Rectifiers for Ambient RF Energy Harvesting and Wireless Power Transfer Systems | Abdul Quddious, Marco A Antoniades, , Symeon Nikolaou | Intechopen | Book Chapter | |
| 7 | 2019 | Reconfigurable BPF with Constant Centre Frequency and Wide Tuning Range of Bandwidth | S. Arain, A. Quddious, S. Nikolaou | IEEE Transactions on Circuits and Systems II Express Briefs | 67 | 1374-1378 |
| 8 | 2019 | Dynamically Reconfigurable SIR Filter Using Rectenna and Active Booster | A. Quddious,MAB Abbasi, A.Saghir, S.Arain, Marco A. Antoniades, and S. Nikolaou, | IEEE Transactions on Microwave Theory and Techniques | 67 | 1504-1515 |
| 9 | 2018 | Single-/Dual-BPF Using Coupled-Line Stepped Impedance Resonator (CLSIR) | A.Saghir, A. Quddious, S.Arain, S. Nikolaou | IEEE Transactions on Circuits and Systems II Express Briefs | 66 | 1497-15-1 |
| 10 | 2018 | Reconfigurable Bandwidth Bandpass Filter With Enhanced Out-of-Band | S. Arain, M. Ali Babar Abbasi, A. Quddious, M. Antoniades, S. Nikolaou | IEEE Microwave and | 28 | 28-30 |

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|---|---|---|---|---|---|---|
| | | Rejection Using pi -Section-Loaded Ring Resonator | | Wireless Components Letters | | |
| 11 | 2017 | Wideband BPF using quadruple-mode ring resonator loaded with short-circuited stubs and Γ-shaped band-stop sections | Arain S, Ali Babar Abbasi M, Quddious A, Antoniades MA, Nikolaou S. | Microwave and Optical Technology Letters | 59 | 2316-2320 |
| 12 | 2017 | Compact EBG-Backed Planar Monopole for BAN Wearable Applications | M. Ali Babar Abbasi, S. Nikolaou, Marco Antoniades, M. N. Stevanovic | IEEE Transaction on Antennas and Propagation | 65 | 1-11 |

| Research Projects | | | | |
|---|---|---|---|---|
| **Ref. Number** | **Date** | **Title** | **Funded by** | **Project Role** |
| 1 | 2024-2027 | Liquid Antennas Assisted Microfluidically Reconfigurable Intelligent Surfaces towards 6G Communications | RIF | Research Associate |
| 2 | 2024-2026 | RecOnfigurable MAgnet-Less Non-RecIprocal MicrowAve Filters-ROMANIA | RIF | Principal Investigator |
| 3 | 2023-2024 | Exploiting novel transparent materials and manufacturing techniques towards Ka-band passives deployed on satellite PV Cells | ESA | Principal Investigator |
| 4 | 2019-2023 | Advanced RF Electronics Centre for Adaptive Metamaterials – RF-META | RIF | Research Associate |
| 5 | 2019-2022 | RobotIcally Controlled RADAR Inspired WiReless Charging for/from Flying UAV PlatformS - ICARUS | RIF | Research Associate |
| 6 | 2018-2021 | Simultaneous Wireless Information & energy Transfer for low-powered Communication technologies – SWITCH | RIF | Research Associate |
| 7 | 2019-2022 | Future Communications with Higher-Symmetric Engineered Artificial Materials | COST ACTION CA18223 | Cyprus' Delegate in Management Committee |
| 8 | 2008-2012 | RF/Microwave Communication Subsystems for Emerging Wireless Technologies | COST ACTION IC0803 | Cyprus' Delegate in Management Committee |

| Academic Consulting Services and/or Participation in Councils / Boards/ Editorial Committees | | | | |
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| **Ref. Number** | **Period** | **Organization** | **Title of Position or Service** | **Key Activities** |

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|---|---|---|---|---|
| 1 | 2022-now | IEEE Open Journal of Circuits and Systems | Associate Editor | Assigning reviewers and making decisions on the publication of manuscripts |
| 2 | 2021-now | IEEE ACCESS | Associate Editor | Assigning reviewers and making decisions on the publication of manuscripts |
| 3 | 2019-now | MOCAST | TPC Member | Reviewing and making decisions on the publication of manuscripts |
| 4 | 2023 | MWSCAS | Organizing Committee-Track Editor for RF and Wireless Circuits and Systems | Assigning associate editors and making decisions on the publication of manuscripts |
| 5 | 2024 | IMFW | TPC Member | Reviewing and making decisions on the publication of manuscripts |

| **Awards / International Recognition** | | | |
|---|---|---|---|
| **Ref. Number** | **Date** | **Title** | **Awarded by:** |
| 1 | 2019 | Best Paper Award on Communications<br>S. Arain, A. Quddious, A. Saghir, S. Nikolaou, and **P. Vryonides**, "Reconfigurable BPF with Wide Tuning Bandwidth Range Using Open- and Short-Ended Stubs," in *2019 8th International Conference on Modern Circuits and Systems Technologies (MOCAST)*, 2019, pp. 1-4: IEEE. | MOCAST |

| **Other Achievements** | | | |
|---|---|---|---|
| **Ref. Number** | **Date** | **Title** | **Key Activities:** |
| 1 | 1999-2002 | Overseas Research Scholarship (ORS) | For PhD degree, UMIST, UK |