

Dr. techn. Maath Musleh Musleh

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Beit Safafa, Jerusalem, Palestine

Summary/Profile

Maath Musleh is a researcher with a strong interdisciplinary interest and experience. He has an educational background in Computer Science and Political Journalism. He also has an academic working experience in Humanities and Arts and a research experience in the Social Sciences. His current research interest spans around user behavior in visualization and visual analytics. In his PhD, he researches user attitude dynamics within decision making in visual analytics under uncertainty. He looks into methods and techniques to guide the user in the sense-making while efficiently building user trust and support his decision confidence. His interdisciplinary interest and research are complemented by strong technical skills, especially in Python.

Education

TU WIEN

PhD in Computer Science

[Thesis] Guided Visual Analytics for Decision Making under Uncertainty

Vienna, Austria

November 2025

LINNAEUS UNIVERSITY

MSc in Media Technology, Social Media and Web Technologies

[Thesis] Visual Analysis of Industrial Multivariate Time-Series Data

Holder of the Swedish Institute Scholarship for Global Professionals (SISGP)

Växjö, Sweden

June 2021

THE CITY UNIVERSITY

MA in Political Journalism

London, England

October 2012

THE AMERICAN UNIVERSITY IN DUBAI

Bachelor in Information Technology

Concentration: Application Development for Commerce and Industry

Dubai, UAE

May 2007

Research Interests

- Decision making in Visual Analytics
- Uncertainty in Visual Analytics
- User Attitude (Confidence and Trust) in Visual Analytics
- Visual Analytics in Agriculture and Farming
- Other interdisciplinary fields in Visualization and Visual Analytics

Publications, Reviews, Conferences

- **Journal and Conference papers and posters [8]:**

- **Maath Musleh**, Renata G. Raidou, Davide Ceneda, “**TrustME: A Context-Aware Explainability Model to Promote User Trust in Guidance**”, in IEEE Transactions on Visualization and Computer Graphics, Volume 31, No.10, 2025, pp. 8040-8056, doi:[10.1109/TVCG.2025.3562929](https://doi.org/10.1109/TVCG.2025.3562929). [Invited Talk: IEEE Vis 2025]
- **Maath Musleh**, Davide Ceneda, Henry Ehlers, Renata G. Raidou, “**ConAn: Measuring and Evaluating User Confidence in Visual Data Analysis Under Uncertainty**”, in Computer Graphics Forum, Volume 44, No.1, 2025, e15272, doi:[10.1111/cgf.15272](https://doi.org/10.1111/cgf.15272). [Invited Talk: EuroVis 2025]
- **Maath Musleh**, Ludvig Paul Muren, Laura Toussaint, Anne Vestergaard, Eduard Gröller, Renata G. Raidou, “**Uncertainty guidance in proton therapy planning visualization**”, in Computers & Graphics, Volume 111, 2023, pp. 166-179, doi:[10.1016/j.cag.2023.02.002](https://doi.org/10.1016/j.cag.2023.02.002). [Invited Talk: EG VCBM 2023]
- **Maath Musleh**, Angelos Chatzimparmpas, Ilir Jusufi, “**Visual analysis of blow molding machine multivariate time series data**”, in Journal of Visualization, Volume 25, 2022, pp. 1329–1342, doi:[10.1007/s12650-022-00857-4](https://doi.org/10.1007/s12650-022-00857-4).
- **Maath Musleh**, Angelos Chatzimparmpas, Ilir Jusufi, “**Visual Analysis of Industrial Multivariate Time Series**”, in the proceedings of *the 14th International Symposium on Visual Information Communication and Interaction (VINCI '21)*, Potsdam, Germany, pp. 1–5, doi:[10.1145/3481549.3481557](https://doi.org/10.1145/3481549.3481557). [Best Short Paper Award] [Conference Talk]
- **Francesca Gauci** and **Maath Musleh**, “**Agriology: A Decision Support System for Local Farmers in Malta and Palestine**”, presented at the 3rd Linnaeus Student Conference on Information Technology (LSCIT), Växjö, Sweden, pp. 1–13. [Conference Talk]
- **Francesca Gauci** and **Maath Musleh**, “**Agriology: A Decision Support System for Local Farmers in Malta and Palestine**”, presented at the 3rd International Workshop on Semantics for Biodiversity (S4BioDiv), Bolzano, Italy, pp. 1–5, <http://ceur-ws.org/Vol-2969/paper3-s4biodiv.pdf>. [Poster]
- **Maath Musleh**, “**The Dynamics of Peace and Justice in Palestine,**” presented at Trinity College Dublin: Peacebuilding & Local Communities in Post-Conflict Societies, May 7, 2019, Dublin, Ireland, doi:[10.13140/RG.2.2.30120.69122](https://doi.org/10.13140/RG.2.2.30120.69122)

- **Conference Talks:**
 - Bard College: Global | Local: Experiments in the Arts and Humanities 2017, New York [**Research Concept:** Challenges & experiments in developing and co-teaching the “Thinking about Video Games” course]
 - Bard College: Digital & Visual Culture in the Liberal Arts 2015, Istanbul [**Research Concept:** Palestinian Visual Narrative & the Formation of a Collective Memory]
- **Books:** [Strategic Studies] The Zionist Policies to Combat ‘BDS’ and the Ways to Dismantle Them (in Arabic), 2018, 978-9950-400-13-9, MASARAT
- **Paper Reviews [14]:** IEEE VIS 2023-2025, CESC G 2024-2025, EuroVis 2024-2025, PacificVis 2023-2024, ICSTCC 2023, CESC G 2024-2025, ICSTCC 2023, Cognition, Technology & Work (CTM) Journal.
- **Posters Review Committee [5]:** IEEE Vis 2025.
- **Committees:** IPC for the IEEE VIS poster session 2025.

Academic Experience

TECHNICAL UNIVERSITY OF VIENNA, TU WIEN

Vienna, Austria

University Assistant

Nov 21 – Present

- Participate in research tasks, in teaching and administrative tasks
- Teach and conduct lectures
- Participate in examinations
- Teaching Assistant and Lecturer for the following courses:
 - Visualization 1 (Lab Coordinator) (2023W)
 - Visualization 2 (Lecture: Uncertainty Visualization) (2023W, 2024W)
 - Methods for Data Generation and Analytics (Lab Coordinator) (2023W, 2024W)
 - CG/Visualization Seminar (Students Project Supervisor) (2022S/W, 2023S/W, 2024S/W, 2025S)
 - Information Visualization (Lab Coordinator: 2022S, 2023S, 2024S, 2025S)

THE (OSUN) HUBS FOR CONNECTED LEARNING INITIATIVES

Jordan

Academic Consultant

Aug 2021 – May 2022

- Participating in planning meetings with local universities and implementing partners in the MENA region;
- The development and delivery of three online courses, built on the OSUN-appointed platform and replicable in the future;
- Liaising with Jordan-based partners and the OSUN Hubs Program Assistant to support Jordan-based Hub students;
- Working directly with university partners and the Hubs Leadership to establish BA and diploma pathways for learners.

CRITICAL PRACTICE STUDIO IN DHEISHEH ON “TRANSLATION” Palestine
Academic and Creative Facilitator Jul 13 – 19, 2021

- Facilitate workshops
- Provide academic and creative support to the residents

PARAMI UNIVERSITY ONLINE (Myanmar)

Instructor

Writing and Thinking Intensive Course (30 hours) Jan 2021

- Teach one sections that consist of 17 students

OSUN MICROCOLLEGES FOR CONNECTED LEARNING INITIATIVE ONLINE

Instructor

Language and Thinking Intensive Course Aug 2020 – Sep 2020

- Teach two sections that consist of 10-16 students each from different parts of Kenya and Jordan

ALQUDS BARD COLLEGE FOR ARTS & SCIENCES Jerusalem, Palestine

Visiting Instructor

Humanities and Arts Division Jan 2019 – Aug 2019

- Teach - Media Law & Ethics Course (Spring '19) and Literature of Exile & Migration (Summer '19)
- Participate in faculty and curriculum development meetings and workshops
- Co-advise Senior projects in the Humanities and Arts & the Social Sciences Divisions

Head of the Humanities and Arts Division

Head of the Media Studies Program Aug 2016 – Jul 2017

- Developed the Media Studies Program plan
- Headed the division that encompassed two programs, 6 faculty members, +30 students

Coordinator of the Arabic Language and Thinking Program May 2016 – Jun 2017

- Administered the teaching of the 2-weeks intensive core course to 672 freshmen students at Al-Quds University
- Compiled the Anthology for the course
- Overlooked the training of 45 new faculty members
- Developed the academic structure of the program
- Supervised the class teaching plans of 45 sections

Acting Head of the Media Studies Program Aug 2015 – Jul 2016

Acting Head of the First-Year Seminar Program (College Core) Aug 2015 – Dec 2015

Visiting Lecturer in the College Core Program Jan 2014 – Jul 2017

Visiting Lecturer in the Media Studies Program Sep 2012 – Jul 2017

- Taught several core, elective, and cross-listed courses: *Introduction to Media Studies*, *Media Law & Ethics*, *New Media*, *Topics in the Business of Media*, *First Year Seminar I*

& II, HR & the Media, Electronic Discourses, Thinking about Video Games, Understanding Media Art (Intensive English students), Video I, Advanced Digital Editing

- Advised +50 students on their academic development and registration
- Advised several production-based senior projects in the Media Studies program and senior theses in the Social Sciences and the Humanities divisions
- Served on the senior boards of Computer Science, Biology, Economics, Political Science, Human Rights, Urban Studies, Literature, and Media Studies students

Trainings and Workshops

BUCHAREST UNIVERSITY OF ECONOMIC STUDIES Predeal, Romania
Data Science and AI International Summer School 2025 Jul 2025

TU WIEN (INTERNAL LEARNING) Vienna, Austria
How do you write a data management plan (DMP) (3hrs) May 2025
Information Security Jan 2025
Sexual Harassment at University and at Work (2hrs) Jan 2025
Unconscious Bias for Staff (2hrs) Jan 2025
Diversity Basics for Staff (2hrs) Jan 2025
ORCID and your digital identity as a researcher (1hr) Jan 2025
Core Competency AI – Promoting Students’ AI and Media Skills (4hrs) Jan 2025
Improving Your Scientific Papers (8hrs) Nov 2024
First Aid (8hrs) Sep 2024
Fit for AI: Future Skills in Research & Education (4hrs) Jun 2024
Didactic Basics (16hrs) Sep 2023

WELFARE ASSOCIATION (TAAWON) Jerusalem, Palestine
Introduction to the Historical and Architectural Development of Palestine Apr 2025

EG VCBM 2023 Norrköping, Sweden
Bio+Med+Vis Summer School Sep 2023

BARD INSTITUTE FOR WRITING & THINKING
Teaching Pedagogy Workshop, participant Abu Dis, Palestine - Jan 2020
The Reluctant Learner Workshop, participant Abu Dis, Palestine - Aug 2017
Applying the Practices workshop, participant Annandale-on-Hudson, NY - Jul 2016
Language and Thinking workshop, participant Annandale-on-Hudson, NY - Jul 2014

HUMANITY CREW Psychosocial support for refugees	Haifa, Palestine Dec 2018
AL-QUDS BARD COLLEGE FOR ARTS AND SCIENCES Writing to Learn workshop, participant	Jerusalem, Palestine Jan 2014, Jan 2015
GLOBAL VOICES The 4 th Arab Bloggers Meeting, Participant	Amman, Jordan Jan 2014
HEINRICH BOLL Energize, Polarize, Mobilize! International Conference, Participant	Berlin, Germany Mar 2013
PALVISION and THE BRITISH CONSULATE Active Citizens Programme, Participant	Ramallah, Palestine Dec 2010
YOUNG ARAB LEADERS Arab Leadership Conference, Participant	Beirut, Lebanon May 2009

Other Professional Experience

THE PALESTINE FESTIVAL OF LITERATURE Logistics Manager - Contract	Jordan/Palestine Dec 2018 – May 2019
FREELANCER Journalist, Producer & Fixer	Palestine Oct 2010 – Jun 2014
TRT TV Producer & Reporter	Jerusalem, Palestine Oct 2013 – Dec 2013
4D MEDIA PRODUCTION AND SERVICES Co-founder	Ramallah, Palestine Jun 2010 – May 2011

Volunteering and Activities

TU WIEN VCBM 2022 Conference	Vienna, Austria Sep 2022
OM SLEIMAN ORGANIC FARM Trainee Volunteer (Farming)	Bilin, Palestine May – Jul 2018

YABOUS CULTURAL CENTER Volunteer (Leader – Cultural Events)	Jerusalem, Palestine Oct 2018
RELIEF AND RECONCILIATION Volunteer (Refugee aid)	Akkar, Lebanon Aug 2017 – Oct 2017
PALESTINE FESTIVAL OF LITERATURE Palestine Social Media Coordinator, Advisor	May 2013 – May 2017
MOSSAWA CENTER (International Volunteer Summer Camp) Volunteer, Leader (Social work)	Palestine 2011 – 2013
THE AMERICAN UNIVERSITY IN DUBAI Student Government Association, Sports Events Coordinator Student Ambassador, Orientation Leader, Supervisor	Dubai, U.A.E. 2004 – 2005 2004 – 2007

Skills

Programming:

Proficient: Python (experience with Kivy, Django, Scikit-learn, Dash and Plotly Libraries), R (experience with statenet and igraph libraries), HTML5/CSS

Knowledge and background: C#, PHP, JavaScript (D3), SQL, ASP.net, AL, C/AL

Software:

Adobe Premiere, Audition, Photoshop, Final Cut Pro, ERP System: Microsoft Dynamic 365

Languages: Arabic (Native), English (Fluent), French (A2 - Basic), German (A2 - Basic)

Hobbies and Interests: Farming, Football, Basketball, Hiking and Camping, Fishing, Reading (especially, History and Philosophy), Socio-political causes, Table Tennis, Cooking & Baking.

References can be acquired by contacting:

- Renata Raidou (rraidou@cg.tuwien.ac.at)
- Davide Ceneda (d.ceneda@tue.nl)
- Eduard Gröller (groeller@cg.tuwien.ac.at)