

KONSTANTINOS AMPLIANITIS, PhD

Strategic Partnerships - Deep Tech Entrepreneur

☎ (+353) 87 987 4073 / (+30) 694 531 0357

✉ kostampl@gmail.com

📍 Dublin Ireland / Berlin

🏠 Konstantinos Amplianitis

🌐 Konstantinos Amplianitis

🌐 www.kostasamplianitis.com

🌐 www.volograms.com

EXPERTISE

Entrepreneurial Activity

Strategic Partnerships
Product Operations
Operations Management
Technology Transfer
IP Management
Fundraising

Research Activity

Generative AI
VR/AR
3D Reconstructions

EDUCATION

🎓 PhD (~Dr. rer. nat.) Computer Science

Research focus: Computer Vision & Machine Learning
Humboldt University of Berlin | Germany
12/2012 – 03/2017

🎓 M.Sc. Geodesy & Geoinformation Science

Disciplined orientation: Computer Vision
Technical University of Berlin | Germany
10/2009 – 03/2012

🎓 B.Sc. Geomatics & Geoinformatics Eng.

Disciplined orientation: Photogrammetry
University of West Attica | Greece
09/2005 – 09/2009

🎓 M.A. Classical Piano Performance (Soloist)

Nefeli Conservatory | Nea Smyrni, Greece | 06/2008

🎓 B.A. Music Theory & Composition

Nefeli Conservatory | Nea Smyrni, Greece | 06/2006

LANGUAGES

🇬🇷 Greek | Native

🇬🇧 English | Fluent

🇩🇪 German | Intermediate

SPORTS • INTERESTS • HOBBIES

🏊 Swimming / 10K Road Runner

🎹 Classical / Jazz Piano soloist

🎧 DJ'ing

🌍 World Traveler

🧩 Building Jigsaw Puzzles

PROFESSIONAL PROFILE

Entrepreneurial AI professional with global experience in commercializing deep-tech products (B2B/B2C). Over 6 years of international leadership in company & product operations, driving revenue growth through SME partnerships, coupled with 7+ years in applied R&D, specializing in computer vision & machine learning. Secured €3M+ in venture capital and €600K in research grants. Prolific contributor to scientific literature, public speaker, and AI columnist.

WORK EXPERIENCE

Professor, Computer Vision 10/2022 – present

IU INTERNATIONAL UNIVERSITY OF APPLIED SCIENCES

Part time employment, Remote work – Germany

IU is the largest higher education institution in Germany and one of the fastest growing EdTech companies globally. Oakley Capital backed EdTech Group.

- Pivotal role in the design & delivery of multiple computer vision courses for the Bachelor's and Master's AI curriculum, adhering to stringent time constraints.

Founder / Principal Consultant

AMPLIANITS CONSULTING Ltd | Remote – Ireland 05/2022 – present

A consultancy firm providing services in early stage deep-tech companies. Services include operations & fundraising advisory, IP portfolio management, feasibility studies and EU Project Management.

Co-founder, Executive Director & BoD Member

VOLOGRAMS Ltd | Remote – Ireland

01/2018 – 10/2023

A deep-tech start-up Company, spin-off venture from Trinity College Dublin, with a mission to bring 3D holograms of real humans to consumers. Its pioneering product lineup features "Volu" for consumers (B2C) and "Vologram Messages" for businesses (B2B).

CHIEF OPERATIONS OFFICER, 09/2019 – 02/2023

- Actively identified and engaged with SMEs, fostering mutually beneficial relationships that led to strategic alliances and increased market reach.
- Provided hands-on training, guidance, and ongoing support to SME partners to ensure they could effectively integrate and utilize our technology, optimizing their operational efficiency and revenue potential.
- Involved in raising €1.5M seed capital from Irish VCs & Enterprise Ireland to develop and launch "Volu" app, a B2C product.
- Successfully raised €600+K in research grants through Irish & EU research bodies.
- Managed all operational complexities related to the Company's (B2B/B2C) products, addressing legal and data privacy aspects, customer support/engineering aspects, effectively mitigating potential risks.
- Developed and managed the Company's Intellectual Property (IP) strategy, filing several patents and trademarks in the EU, UK and USA.
- Drove diverse international recruitment, allowing the company to scale from three to twenty people with a view to strengthen diversity for innovation, enhance the company's global presence and culture; established Spanish and Italian entities, acting as a legal representative for those entities.

CHIEF SCIENTIFIC OFFICER, 04/2018 – 08/2019

- Restructured backend API & set up programming standards.
- Contributed raising €850K pre-seed capital from Irish VCs & Enterprise Ireland to bring our patented multi-camera volumetric video solution to market.

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PATENTS

- **Volumetric Imaging**

US 17584928 | Filed Aug 8, 2022

- Method and Apparatus for Generating a 3D Model | US 11,348,267 B2 | Granted 31/05/2022.

RESEARCH GRANTS

- **Volumetric 3D Teachers in Educational Reality (VOL3DEDU)**
EU Erasmus+ | €400k | 2022 – 2024
- **Innovative Volumetric Capture & Editing Tools for Ubiquitous Storytelling (INVICTUS)**
EU H2020 | €2M | 2020 – 2022
- **Tesla Grant** | Tesla XP GPU card NVIDIA Corporation | 2017

TRAINING & CERTIFICATIONS

- Overview and an in-depth analysis of the state-of-the-art research in Computer Vision.
International Computer Vision Summer School | Sicily | 09 - 15 / 07 / 2017
- Drones applied to Cultural Heritage & Archaeology
International Summer School | Pontignano (Siena) | 20 - 26 / 09 / 2013

PROGRAMMING COMPETENCES

- Operating Systems Unix / Windows
- Programming Languages C++ / Python
- Script Languages MATLAB
- Revision Control Systems Git
- Build Systems CMake
- Unit Testing Google Tests
- Type Setting LaTeX

VOLUNTEER WORK

- Columnist, **Greek Newspaper "TA NEA"**
Writing articles around the emerging area of AI
- Paper Reviewer, **IEEE**
- Expert Evaluator, **Research and Innovation Foundation, Cyprus**
- Business Mentor, **Greek Startup Universe**
Advising early-stage startups
- Student Mentor, **The Tipping Point in Education**

Work Experience continued...

Postdoctoral Research Fellow

TRINITY COLLEGE DUBLIN | Dublin - Ireland **09/2016 – 05/2018**
Graphics Vision & Visualization Group (GV2)

Member of the research project V-SENSE ("Extending visual Sensation through Image-based Visual Computing"), led by Prof. Aljosa Smolic. Research on natural image matting & volumetric video.

Software Engineer

SIEMENS AG | Berlin - Germany **05/2015 – 06/2016**
Mobility Division, Technology & Innovation

Developed 3D object recognition algorithms for Augmented Reality products to detect and recognize various objects in a Siemens Vectron Locomotive using cameras embedded in tablets and mobile phones.

Research Associate

HUMBOLDT UNIVERSITY OF BERLIN | Germany **07/2012 – 06/2016**
Computer Vision Group

HONORS / AWARDS / MENTIONS

- VOLOGRAMS "Gold Medal in the Emerge tech Startup category"
National Startup Awards | Ireland | 2022
- VOLOGRAMS Auggie Award for the category "Best use of AI"
Augmented World Expo | USA | 2022
- VOLOGRAMS one of the 100 Europe's Hottest Startups
WIRED magazine | USA | 2022
- VOLOGRAMS "Top Virtual Reality Companies in Ireland"
WELP magazine | UK | 02/2021
- VOLOGRAMS "Top 100 Hot Startups to watch"
The Sunday Business Post | Ireland | 2018 / 2019
- Best Journal Paper Award for the paper "Affordable Content Creation for Free-Viewpoint Video and VR/AR Applications"
Journal of Visual Comm. & Image Representation | 06/2019
- Campus Company Recognition Award
Trinity College Dublin Innovation Awards | Ireland | 12/2018
VOLOGRAMS acknowledged by TCD for its innovative research & entrepreneurship.
- 1st Prize NEM Art & Design Competition
Art & Design Competition NEM Summit | Spain | 11/2017 "Virtual Play: After Samuel Beckett" V-Sense Trinity College
- 1st Prize Reading Group Competition
Inspiring Computer Vision System Solutions | Italy | 07/2017.
Grounded on the seminar / workshop 3D scanning work "The Digital Michelangelo Project."
- Distinction in Classical Piano Performance
Hellenic Ministry of Culture | Greece | 06/2008
- Distinction in Music Theory & Composition
Hellenic Ministry of Culture | Greece | 06/2006
- Piano Performance Scholarship
Nefeli Conservatory | Greece | 2003 / 2004