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 Konstantinos Ampliantis
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 www.volograms.com

EXPERTISE

Entrepreneurial Activity

Raising Startup Venture Capital
 Proposals for EU Research Grants
 Operations Management
 Development of University spin-offs
 Filing of Patents & Trademarks

AR/VR Technology

Virtual & Augmented Reality
 Volumetric Video
 3D Reconstructions
 Video Object Segmentation
 Machine & Deep Learning
 Scientific Paper Reviewer in VR/AR

EDUCATION

PhD (Dr. rer. nat.) Computer Science

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

MSc Geodesy & Geoinformation Science

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

BSc Geomatics & Geoinformatics Engr.

Disciplined orientation: Photogrammetry
 Athens University of Applied Sciences | Greece
 09/2005 – 09/2009




M.A. Classical Piano Performance (Soloist)

Nefeli Conservatory | Athens • Greece | 06/2008





B.A. Music Theory & Composition

Nefeli Conservatory | Athens • Greece | 06/2006

LANGUAGES

 Greek | Native
 English | Fluent
 German | Intermediate

SPORTS • INTERESTS • HOBBIES

 Swimming / 10K Road Runner / Paddle Tennis
 Classical Piano Performance
 Travel & Cultural trips
 Building Jigsaw Puzzles

SUMMARY

3+ years international entrepreneurial experience in a university spin-off deep tech company, VOLOGRAMS for Augmented / Virtual Reality (AR / VR) applications, propelled to global commercialization, coupled with 7+ years' applied R&D and innovation in Computer Vision & Deep / Machine Learning. Experience in successfully raising €2.35m Startup Venture Capital, acquiring €320K+ in EU research grants, encountering operational & commercialization challenges. Published numerous Scientific research papers in top-tier international conferences & journals. Public speaker, Scientific Paper Reviewer and occasional opinion writer in related fields.

PROFESSIONAL EXPERIENCE

Co-founder, COO & BOD Member

VOLOGRAMS Ltd | Dublin – Ireland | 01/2018 – present

A Virtual & Augmented Reality Technology Company, startup and spin-off venture from Trinity College Dublin, with a mission to bring holograms of real humans to all consumers.

CHIEF OPERATIONS OFFICER | 09/2019 – present

- Involved in raising €1.5m seed capital from VC & Enterprise Ireland.
- Successfully raised €326K through national & EU research grants
- Developed the Company's Intellectual Property (IP) strategy
- Filed 2 patents and trademark rights for Europe and USA
- Successfully recruited, primarily international employees, with a view to strengthen diversity for innovation, enhance the company's global presence and culture. Developed a clear on-boarding process

CHIEF SCIENTIFIC OFFICER | 05/2018 – 08/2019

- Involved in raising €850k pre-seed capital from VC & Enterprise Ireland
- Restructured Volograms' backend API and set up programming standards & procedures

Postdoctoral Research Fellow

TRINITY COLLEGE DUBLIN | Ireland | 09/2016 – 05/2018

Graphics Vision & Visualization Group

Member of the research project "V-SENSE "Extending visual Sensation through Image-based Visual Computing", led by Prof. Aljosa Smolic. Responsible for R&D of natural image matting & 3D reconstruction for volumetric video.

- Successfully published scientific papers in top tier conferences / journals on AR/VR technologies
- Involved in the development of a mature 3D prototype system, used in several application examples and creative experiments
- Involved in the creation of a patent – method & device for creating a 3D model

Software Engineer

SIEMENS AG | Berlin • Germany | 03/2015 – 06/2016

Mobility Division, Technology & Innovation

Responsible for the development of 3D Object recognition algorithms for Augmented Reality Products to be used for robustly detecting & recognizing a variety of objects in a Siemens Vectron Locomotive, from cameras embedded in different devices, such as tablets and mobile phones.

Research Associate

HUMBOLDT INNOVATION GmbH | Berlin • Germany | 12/2015 – 06/2016

Computer Vision Group

Responsible for correcting systematic errors of a static camera through bundle adjustment

Research Associate

HUMBOLDT UNIVERSITY OF BERLIN | Germany | 07/2012 – 06/2016

Computer Vision Group

Involved in R&D, as well as critical projects in the field of Computer Vision & Machine Learning, leading towards a PhD.

RESEARCH GRANTS

- VOLOGRAMS @ **Innovative Volumetric Capture & Editing Tools for Ubiquitous Storytelling** (INVICTUS PROJECT). EU grant 280K, HORIZON 2020: ICT-55 2018-2020 Interactive Technologies 2020 – 2022
- Tesla XP GPU card NVIDIA Corporation | 2017

ACADEMIC SERVICES

- Reviewer (Journals)
 - Computer Graphics Forum | 2020
 - IEEE Transactions on Multimedia | 2019
 - IEEE Image Understanding | 2017
 - EURASIP Image & Video Processing | 2017
 - ISPRS Photogrammetry & Remote Sensing | 2016
- Reviewer (Conferences)
 - European Signal Processing Conference | 2018
 - International Society for Photogrammetry & Remote Sensing | 2016
 - International Conference on Computer Vision Theory and Applications | 2016
- Session Chair
 - International Conference on Computer Vision Theory and Applications | Rome | 27-29 / 02 / 2016
 - International Conference on Computer Vision Theory and Applications | Berlin | 11-14 / 03 / 2015

TEACHING EXPERIENCE

- Trinity College Dublin
 - Computer Vision (Module CSGV1/ACAD) 2016-2017
 - AR (Module CS7034/ACAD) 2016-2017
 - Comp. Vision (Module CS4053/ACAD) 2016-2017
 - Vision Systems (Module CS7008/ACAD) 2016-2017
 - Comp. Graphics (Module CS4052/ACAD) 2016-2017
- Humboldt University of Berlin
 - Stereo Vision Module 32313 - ACAD Winter terms 2012 - 2016

PROGRAMMING COMPETENCES

- Operating SystemsUnix / Windows
- Programming LanguagesC / C++ / Python
- Script LanguagesMATLAB
- C++ LibrariesBoost / OpenMP
- OPT / Math FrameworkCeres / Eigen / FADBAD
- CV FrameworksOpenCV / MVS / MVG / PCL
- AR FrameworksMetaioSDK
- Revision Control SystemsGit / SVN
- Build SystemsCMake
- Unit TestingGoogle Tests
- TypesettingLaTeX

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
- Security City: Bringing Information Security to Life **Siemens AG, License: Z001NVMP** | Berlin | 05/2015
- Drones applied to Cultural Heritage & Archaeology **International Summer School** | Pontignano (Siena) 20-26 / 09 / 2013

HONORS / AWARDS / MENTIONS

- VOLOGRAMS "Top Virtual Reality Companies in Ireland (2021)" **WELP MAGAZINE** | 02/2021
- VOLOGRAMS "Top 100 Hot Startups to watch". **The Sunday Business Post Ireland** | 2018 / 2019 Best Journal Paper Award
- **Journal of Visual Comm. & Image Representation** 06/2019. Affordable Content Creation for Free-Viewpoint Video and VR/AR Applications
- Campus Company Recognition Award **Trinity College Dublin Innovation Awards** | 12/2018 VOLOGRAMS acknowledged by TCD for its innovative research & entrepreneurship.
- 1st Prize NEM Art & Design Competition **Art & Design Competition NEM Summit** | Madrid | 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 Piano Performance **Hellenic Ministry of Culture** | 06/2008
- Distinction in Music Theory & Composition **Hellenic Ministry of Culture** | 06/2006
- Piano Performance Scholarship **NEFELI Conservatory** | Athens • Greece | 2003/2004

VOLUNTEER WORK

- CAREER MENTOR **The Tipping Point in Education**
Empower youth to connect with industry role models (mentors) to take their once-in-a-life time decision for their career
- BUSINESS MEMBER & ADVISOR **The Hellenic Community of Ireland**

AFFILIATIONS

- EC initiative for Extended Reality (**XR4ALL**)
- Institute of Electrical & Electronics Engineers (**IEEE**)
- The British Machine Vision Association (**BMVA**)
- Association for Computing Machinery (**ACM**)
- The Computer Vision Foundation (**CVF**)
- International Society for Photogrammetry & Remote Sensing (**ISPRS**)

Publications

Citations 150 • h-index 5 • i10-index 3

No.	Title	Cited by	Year
1.	Method and apparatus for generating a three-dimensional model A Smolic, R Pages, J Ondrej, K Ampliantitis, D Monaghan US Patent App. 16/955,564		2020
2.	Forge: A volumetric video processing platform for everyone Rafael Pagés, Jan Ondřej, Konstantinos Ampliantitis, Nicolás Moreno de Palma, Aljosa Smolic NEM SUMMIT 2020, June 30 – July 2, Dublin, Ireland		2020
3.	Jonathan Swift: Augmented Reality Application for Trinity Library's Long Room N O'Dwyer, J Ondřej, R Pagés, K Ampliantitis, A Smolić International Conference on Interactive Digital Storytelling, 348-351	5	2018
4.	Beckett in VR: Exploring narrative using free viewpoint video Néill O'Dwyer, Nicholas Johnson, Rafael Pagés, Jan Ondřej, Konstantinos Ampliantitis, Enda Bates, David Monaghan, Aljoša Smolić ACM SIGGRAPH 2018 Posters, 1-2	6	2018
5.	AlphaGAN: Generative adversarial networks for natural image matting S Lutz, K Ampliantitis, A Smolic arXiv preprint arXiv:1807.10088	81	2018
6.	Affordable content creation for free-viewpoint video and VR/AR applications R Pagés, K Ampliantitis, D Monaghan, J Ondřej, A Smolić Journal of Visual Communication and Image Representation 53, 192-201	36	2018
7.	Samuel Beckett in Virtual Reality: Exploring narrative using free viewpoint video Néill O' Dwyer, Nicholas Johnson, Enda Bates, Rafael Pagés, Konstantinos Ampliantitis, David Monaghan, Aljoša Smolic Leonardo Journal (ISAST), 10	3	2018
8.	Virtual play in free-viewpoint video: Reinterpreting Samuel Beckett for virtual reality Néill O'Dwyer, Nicholas Johnson, Enda Bates, Rafael Pagés, Jan Ondřej, Konstantinos Ampliantitis, David Monaghan, Aljoša Smolić 2017 IEEE International Symposium on Mixed and Augmented Reality (ISMAR-Adjunct)	10	2017
9.	Inspiring Computer Vision System Solutions Julian Zilly, Amit Boyarski, Micael Carvalho, Amir Atapour Abarghouei, Konstantinos Ampliantitis, Aleksandr Krasnov, Massimiliano Mancini, Hernán Gonzalez, Riccardo Spezialetti, Carlos Sampedro Pérez, Hao Liar Xiv preprint arXiv:1707.07210, 2017		2017
10.	Leave a Trace - A People Tracking System Meets Anomaly Detection D Rueß, K Ampliantitis, N Deckers, M Adduci, K Manthey, R Reulke The International Journal of Multimedia & Its Applications (IJMA) 9, 13		2017
11.	Human Recognition in RGBD combining Object Detectors and Conditional Random Fields K Ampliantitis, R Hänsch, R Reulke International Conference on Computer Vision Theory and Applications (VISAPP)	1	2016
12.	Towards a 3D Pipeline for Monitoring and Tracking People in an Indoor Scenario using Multiple RGBD Sensors. K Ampliantitis, M Adduci, R Reulke International Conference on Computer Vision Theory and Applications (VISAPP)	1	2015
13.	A Quality Evaluation of Single and Multiple Camera Calibration Approaches for an Indoor Multi Camera Tracking System. M Adduci, K Ampliantitis, R Reulke International Archives of the Photogrammetry, Remote Sensing & Spatial Information Sciences	1	2014
14.	Calibration of a multiple stereo and RGB-D camera system for 3D human tracking K Ampliantitis, M Adduci, R Reulke ISPRS - International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences, Volume XL-3/W1, 2014 EuroCOW 2014, the European Calibration and Orientation Workshop, 12-14 February 2014, Castelldefels, Spain	6	2014
15.	3D Object Detection and Tracking in an Indoor Environment K Ampliantitis, M Adduci, R Reulke Anwendungsbezogener Workshop zur Erfassung, Modellierung, Verarbeitung und Auswertung von 3D-Daten		2014
16.	3D Personenerkennung und Verfolgung mit Stereo-und RGB-D Kameras M Adduci, K Ampliantitis, S Bodas, M Misgaiski-Haß, R Reulke Humboldt-Universität zu Berlin, Institut für Informatik, Computer Vision		2014