Angeliki Katsenou | CV

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in angeliki-katsenou   ·   🐦 angiekatsenou

❯ ❯ ❯ Employment

3/2018–now	**Leverhulme Early-Career Fellow/Senior Research Fellow, PI**	University of Bristol, UK

> ❯ "Deep Video Analysis and Compression", ECF-2017-413.

8/2017–2/2018	**Research Fellow**	University of Bristol, UK

> ❯ "Analysis of Video Texture Compression", EPSRC - Platform Grant EP/M000885/1

8/2015–8/2017	**Marie Sklodowska-Curie Research Fellow**	University of Bristol, UK

> ❯ PROVISION - Perceptually Optimized Video Compression, FP7 Marie Sklodowska-Curie International Training Network.

4/2013–7/2013	**Short-term Research Scholar**	San Diego State Univ., USA

> ❯ Joint Research on Resource Allocation for Distortion-aware Video Transmission over Multi-access Networks. *(during my PhD)*

5/2010–3/2013	**Research Assistant**	University of Ioannina, GR

> ❯ CloViSeN - Cross-layer Optimization in Visual Sensor Networks, FP7 Marie Curie Reintegration Grant. *(during my PhD)*

1/2008–11/2009	**Project Manager for FP7 ICT Projects**	SWORD Technologies, GR

> ❯ ARTreat - Multi-level patient-specific artery and atherogenesis model for outcome prediction, decision support treatment, and virtual hand-on training, FP7 e-Health project 224297.
> ❯ Smart-Vei - The Smart Vehicle, FP7 ICT project 216480.
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> ❯ I-WAY - Highway, intelligent cooperative system in cars for road safety, ICT project 31982.

1/2007–8/2008	**Project & Technical Lead (*indicative projects*)**	University of Ioannina, GR

> ❯ Navigation System for Arta Municipality: System Design and Software Applications for PDAs and Infokiosks.
> ❯ European Community Activity EQUAL, B Cycle: Adaptation of SMEs in the Area of Tourism and Local Products in Epirus.

❯ ❯ ❯ Awards and Research Grants

2021–2022	PI, "Sustainable Video Communications", Bristol+Bath Creative Cluster, UKRI	£47,000
2020	CoI,"Deep learning workstations for Image/Video Processing and Communication Projects", Engineering Capital Equipment, University of Bristol, UK	£50,000
2018–2021	PI, "Deep Video Analysis and Compression", Leverhulme ECF-2017-413, UK	£397,885
2019–2021	Co-I, "Perceptual Video Compression - II", Netflix Inc, USA	£172,240
2018–2019	Co-I, "Perceptual Video Compression", Netflix Inc, USA	£57,928
2017–2018	PI, "Analysis of Video Texture Compression", EPSRC Pump-Priming Award (EP/M000885/1)	£32,214
2017	NVIDIA GPU Seeding Grant	£1,500

❱❱❱ Teaching Experience

10/2020–9/2021	**0.1FTE Lecturer**	University of Bristol, UK

❱ MSc on Image, Signal and Video Processing.

10/2019–9/2020	**Unit Director and Lecturer**	University of Bristol, UK

❱ EENGM0006 Biomedical Imaging

10/2011–1/2014	**Teaching Assistant**	University of Ioannina, GR

❱ Introduction in Programming using Python, Department of Computer Science and Engineering.

❱ Signals and Systems, Department of Computer Science and Engineering.

10/2008–9/2010	**Lecturer**	University of Ioannina, GR

❱ Digital Image and Video Processing (Both Lectures and Labs, Department of Informatics and Telecommunications.

10/2006–9/2007	**Lab Instructor**	University of Ioannina, GR

❱ Introduction in Programming I (Labs), Department of Informatics and Telecommunications.

10/2004–9/2005	**Teaching Assistant**	University of Patras, GR

❱ Analog Circuits (TB1) and Digital Electronics (TB2) Labs, Department of Computer Science and Engineering.

❱❱❱ Highlighted Research Outputs

1. **A. V. Katsenou**, G. Dimitrov, D. Ma and D. R. Bull, "BVI-SynTex: A Synthetic Video Texture Dataset for Video Compression and Video Quality Assessment", IEEE Transactions on Multimedia, vol.23, pp. 26-38, 2021.

2. **A. V. Katsenou,** J. Sole and D. R. Bull, "Content-gnostic Bitrate Ladder Prediction for Adaptive Streaming", in 2019 Picture Coding Symposium, Ningbo, China.

3. **A. V. Katsenou**, F. Zhang, M. Afonso and D. R. Bull, "A Subjective Comparison of AV1 and HEVC for Adaptive Video Streaming", in 2019 IEEE International Conference on Image Processing, Taipei, Taiwan.

4. F. Zhang, **A. V. Katsenou**, M. Afonso, and D. R. Bull, "BVI-Codec Comparison dataset - Objective and Subjective Evaluation", 2019, `https://doi.org/10.5523/bris.1fyr4uv4aqo352lct09g7r9ejp`.

5. **A. V. Katsenou**, G. Dimitrov, D. Ma, and D. R. Bull, "BVI-SynTex dataset - Objective and Subjective Evaluation", 2019, `https://doi.org/10.5523/bris.24imj6d9s27me2n211cf6jxkio`.

6. G. Dimitrov, **A. V. Katsenou**, and D. R. Bull, "BVI-SVQA: Subjective Video Quality Assessment Software", Aug. 2019, `https://github.com/goceee/SVQA`.

7. (**invited**) **A. V. Katsenou**, D. Ma, and D. R. Bull, "Perceptually-aligned Frame Rate Selection using Spatio-Temporal Features", in 2018 Picture Coding Symposium, San Francisco, USA.

8. M. Afonso, F. Zhang, **A. V. Katsenou**, D. Agrafiotis, and D. R. Bull, "Low Complexity Video Coding based on Spatial Resolution Adaptation", in 2017 IEEE International Conference on Image Processing, Beijing, China.

9. **A. V. Katsenou**, M. Afonso, D. Agrafiotis and D. R. Bull, "Predicting Video Rate-Distortion Curves using Textural Features", in 2016 Picture Coding Symposium, Nuremberg, Germany.

10. **A. V. Katsenou**, L. P. Kondi, and K. E. Parsopoulos, "Motion-Related Resource Allocation in Dynamic Wireless Visual Sensor Network Environments", IEEE Transactions on Image Processing, vol. 23, issue 1, pp. 56-68, 2014.

❱❱❱ Invited Talks

- "Content-gnostic Bitrate Ladder Prediction for Adaptive Streaming", ATHENA Group, University of Klagenfurt, Austria, 29/09/2020.

- "Evaluating Video Codecs Through Objective and Subjective Assessments", Alliance for Open Media (AOM) Symposium 2019, San Francisco, USA, 28/10/2019.
- "Resource Allocation Issues for Video Transmission over Wireless Multi-access Networks", Department of Information Engineering, University of Parma, Italy, 25/2/2015.
- "Game-theoretic Solutions for Video Quality-driven Resource Allocation in Wireless Visual Sensor Networks", Department of Electrical and Computer Engineering, San Diego State University, USA, 20/4/2013.

❯❯❯ Volunteering in Research Community

Committees:

- Technical Program Chair of the 2021 PCS, Bristol, UK.
- Best Paper Award Committee of the 2019 PCS, Ningbo, China.
- Publicity Chair of the 2018 PCS, San Francisco, USA.
- Organising Committee of 2017-2020 Vision Researchers' Colloquium, Bristol Vision Institute.

Grand Challenges and Special Sessions:

- Organiser of the Grand Challenge "Grand Challenge: New Video Coding Standards" in 2017 IEEE ICIP.
- Organiser of the Grand Challenge "Grand Challenge: Encoding in the Dark" in 2020 IEEE ICME.
- Organiser of the Special Session "Challenges in Perceptual Compression of Video" in 2016 PCS.
- Session Chair, 2016,2018-2019 PCS.
- Session Chair, 2017,2019 Young Researchers Colloquium, Bristol Vision Institute.

Reviewer for:

- **Journals:** IEEE Transactions on Image Processing, IEEE Transactions on Multimedia, IEEE Transactions on Vehicular Technology, IEEE Transactions on Communications, IEEE Communication Letters, IEEE Signal Processing Letters, Elsevier Signal Processing: Image and Video Communication, Elsevier Digital Signal Processing, etc.
- **Conferences:** ICIP 2015-2020, PCS 2016, 2018, 2019, IEEE ICME 2018-2021, EUSIPCO 2013-2014, etc.
- **Meta-Reviewer for Conferences** ICME 2020, PCS 2019-2021.
- **Review Editor**: Member of the Editorial Board of Image Processing, specialty section of Frontiers in Signal Processing since Dec 2020.

Representative:

- PDRA representative on the Management Team of the Bristol Vision Institute (BVI) and volunteer in BVI annual and periodic scientific events.

❯❯❯ Education

2010–2014	PhD in Computer Science	*University of Ioannina, GR*
2009–2010	Pedagogical Proficiency	*ASPETE, Ioannina, GR*
2004–2007	MSc in Theory and Systems in Signal and Image Processing	*University of Patras, GR*
1999–2004	Diploma (MEng) in Electrical & Computer Engineering	*University of Patras, GR*

❯❯❯ Personal Development - Courses

2019–2020	**CREATE Level 1 Fellow**	University of Bristol, UK
2018	**Leading Academic Teams**	University of Bristol, UK
2016	**Entrepreneurship and Innovation**	University of Bristol, UK