Mikhail Fominykh, PhD

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Date of birth: 16.07.1984
Citizen/Resident: Norway/Norway

My professional career has been a journey from developing educational multimedia resources to studying innovative learning methods and designing learning tools, to acquiring grants and managing international projects, and to managing organizations. I seek opportunities to realise my enthusiasm for technology and learning.

Selected academic projects

[2022–**now**]   Virtual Reality for Vocational Education and Training, https://vr4vet.eu/
- Beneficiary: Norwegian University of Science and Technology
- Funded by: EU under Erasmus+ programme, KA2 Strategic Partnership
- Responsibilities: Coordination
- Major result: Virtual Reality simulation of workplace experience https://github.com/vr4vet

[2019–2022] Doctoral Education for Technology-Enhanced Learning, https://ea-tel.eu/de-tel/
- Beneficiary: Norwegian University of Science and Technology
- Funded by: EU under Erasmus+ programme, KA2 Strategic Partnership
- Responsibilities: Coordination, original idea
- Major result: DE-TEL program https://ea-tel.eu/de-tel/detel-program
- Major result: DE-TEL book https://ea-tel.eu/detel-book/

[2017–2020] Augmented Reality in Formal University Education, https://codereality.net/
- Beneficiary: Molde University College
- Funded by: EU under Erasmus+ programme, KA2 Strategic Partnership
- Responsibilities: Coordination, event management, production of educational materials
- Major result: Model Augmented Reality curriculum:
  https://dl.acm.org/doi/10.1145/3437800.3439205
- Major result: Open Augmented Reality teaching book https://codereality.net/ar-for-eu-book/

[2017–2022] Virtual Internship: https://www.ntnu.edu/imtel/virtual-internship
- Beneficiary: Norwegian University of Science and Technology
- Funded by: Norwegian Labour and Welfare Administration (NAV)
- Responsibilities: technical coordination and research
- Major result: Immersive Job Taste: a Concept of Demonstrating Workplaces with Virtual Reality https://ieeexplore.ieee.org/document/8798356
- Major result: Nine prototypes of Virtual Reality application representing professions.
- Major result: Job Interview app https://www.ntnu.edu/imtel/job-interview-vr

[2015–2019] Wearable Experience for Knowledge Intensive Training,
        https://cordis.europa.eu/project/id/687669/
- Beneficiary: Europlan UK ltd, United Kingdom
- Funded by: EU under Horizon 2020 programme, call ICT-20-2015
- Responsibilities: original idea, proposal coordination, leading work package "Roadmap, Exploitation, and Business Impact", research, and dissemination
- Formal results: https://cordis.europa.eu/project/id/687669/results

Academic experience

[2017–**now**] Researcher, Department of Pedagogics and Life-long learning, NTNU, Norway
- Coordinator of ARIDLL: https://aridll.eu/ funded by EU
- Coordinator of VR4VET: https://vr4vet.eu/ funded by EU
- Technical coordinator of AR sukkerhus project, funded by NTNU
- Coordinator of eROBSON: https://e-robson.eu/ funded by EU
- Technical coordinator of VR-Learn: https://vrlearn.it.ntnu.no/ funded by HKDIR
- Technical coordinator of ReactVR climate-change simulation
- Coordinator of DE-TEL: https://ea-tel.eu/de-tel funded by EU
- Coordinator of DC4LT: https://www.dc4lt.eu funded by EU
- Coordinator of Virtual Internship: https://www.ntnu.edu/imtel/virtual-internship funded by NAV

[2015–2021] Associate Professor (20%), Molde University College, Norway http://www.himolde.no/
- Coordinator of AR-FOR-EU: http://codereality.net funded by EU

[2012–2014] Postdoctoral research fellow, Programme for Learning with ICT, NTNU, Norway
- Project participant: CoCreate, funded by EU

[2007–2012] PhD Research Fellow at Program for Learning with ICT, NTNU, Norway
- Project participant: TARGET, funded by EU
- 3D design: Travel in Europe, funded by EU cultural heritage
- R&D: Virtual Campus of NTNU

R&D Experience outside academia

[2017–**now**] Director at WEKIT Experience Capturing Solutions Limited, Ireland
- Co-founder, Chief Information Officer
- Director of Enterprise Solutions for MirageXR https://wekit-ecs.com/

[2011–**now**] Self-employed at Fominykh Consulting org. number: 997 025 849 MVA
- Developer of OLT Prosjektportal: http://pp.olympiatoppen.no/ coordinated by Olympiatoppen
- Developer of CandMig3: https://stolav.no/kliniske-studier/kandesartan-mot-migrene coordinated by St.Olavs Hospital
- Developer of MiBlock https://stolav.no/kliniske-studier/miblock coordinated by St.Olavs Hospital
- Developer of Migraine Aura https://stolav.no/kliniske-studier/aura-app-til-hodepineforskning, coordinated by St.Olavs Hospital
- Developer of ExecutiveIntelligence https://executiveintelligence.no coordinated by Coperiosenteret
- Developer of BioWaveVR https://www.coperioinnovation.com/products, coordinated by Coperiosenteret
- Developer and 3D designer in VirSam: http://virsam.no/ coordinated by NTNU Faculty of Medicine

[2014–2019] Project Manager (28%), Europlan UK Ltd, UK https://europlan-uk.eu/
- Initiator and co-leader of Horizon 2020 project WEKIT, funded by EU
- Manager of development project IS portal for BEREC https://isportal.berec.europa.eu/, funded by EU BEREC Office

Education

[2008–2012] Department of Computer and Information Science, NTNU, Norway
- PhD Thesis: "Collaborative work on 3D educational content" http://hdl.handle.net/11250/252809

[2001–2006] Faculty of Information Technologies and Computer Engineering, VSUT, Russia
- Diploma Thesis: "Designing 3D Virtual Environment for Learning Arts"
- Average grade: 4.75 (min. passing grade 3, max. grade 5)

[1996–2000] Art school, Russia
- Subjects: Graphics, Painting, Composition, Decorative Arts, History of Visual Art

Teaching and Curricula Development

[2019–**2022**] Doctoral Education for Technology-Enhanced Learning
- Workshops and lectures on the topic of Technology-Enhanced Learning
- DE-TEL program: https://ea-tel.eu/de-tel/detel-program
- DE-TEL book: https://ea-tel.eu/detel-book/

[2020–2021] Future learning technologies NTNU Continuing education PED6050
- Workshops and lectures on the topics of Virtual and Augmented Reality
- Course: https://www.ntnu.no/videre/gen/-/courses/nv22246

[2020-2020] Future technologies for digital collaboration NTNU Continuing education course
- Workshops and lectures on the topics of Virtual and Augmented Reality
- Course: https://www.ntnu.no/videre/gen/-/courses/nv18921

[2019–2021] Code Reality: Learn
- Workshops and lectures on the topic of Augmented reality, both on campus and online
- Model Augmented Reality curriculum: https://dl.acm.org/doi/10.1145/3437800.3439205

[2018–2022] LLearnInTech: Towards an cross-disciplinary, international and sustainable master program
- What do they TEL(L)? A systematic analysis of master programs in technology-enhanced learning, DOI: 10.1186/s41239-021-00305-7
- Model Technology-Enhanced Learning curriculum for master programs

[2013–**now**] EATEL Summer School on Technology Enhanced Learning
- Workshops and lectures on research design, community building, and industrial training
- General chair 2017, 2018, 2019, 2022, 2023: program design and event management

[2014–2020] VSUT, Russia: Virtual and Augmented Reality course
- Responsibilities: lectures, practical exercises, and assessment

[2008–2014] NTNU, Norway: Cooperation Technologies and Social Media course
- Course design, lectures, practical exercises, and assessment

[2011–2012] EU CoCreat project https://cocreat.wordpress.com/
- Design and tutoring in two international distant courses

Publications

Overview by publication type
- journal articles: **11**
- book chapters: **11**
- full papers in conference proceedings: **43**
- short papers in conference proceeding: **5**
- posters in conference proceedings: **3**
- editorial work: **3**
- non-academic articles: **2**

Citation rating (by gScholar)
- Citations: **717**
- h-index: **15**

Selected publications

Mikhail Fominykh, Joshua Weidlich, Marco Kalz, and Ingunn Dahler Hybertsen: "What do they TEL(L)? A systematic analysis of master programs in technology-enhanced learning," in *International Journal of Educational Technology in Higher Education (ETHE)*, ISSN: 2365-9440, Volume 19, Issue 1, 2022, Springer, pp. 1–25. DOI: 10.1186/s41239-021-00305-7

Mikhail Fominykh, Elizaveta Shikhova, Maria Victoria Soule, Maria Perifanou, and Daria Zhukova: "Digital Competence Assessment Survey for Language Teachers," in *the 8th International Conference on Learning and Collaboration Technologies (LCT2021)*, held as part of *the 23nd International Conference on Human-Computer Interaction (HCII2021)*, online, July 24–29, 2021, LNCS 12784 Springer, ISBN: 978-3-030-77888-0, pp. 264–282. DOI: 10.1007/978-3-030-77889-7_18.

Mikhail Fominykh, Fridolin Wild, Ralf Klamma, Mark Billinghurst, Lisandra S. Costiner, Andrey Karsakov, Eleni Mangina, Judith Molka-Danielsen, Ian Pollock, Marius Preda, and Aljosa Smolic: "Model Augmented Reality Curriculum," in *2020 ITiCSE Working Group Reports (ITiCSE-WGR '20)*, Trondheim, Norway (online), June 17–18, 2020, ACM, ISBN: 78-1-4503-8293-9/20/06, pp. 131–149. DOI: 10.1145/3437800.3439205.

Viktoria Pammer-Schindler, Fridolin Wild, **Mikhail Fominykh**, Tobias Ley, Maria Perifanou, Maria Victoria Soule, Davinia Hernández-Leo, Marco Kalz, Ralf Klamma, Luís Pedro, Carlos Santos, Christian Glahn, Anastasios A. Economides, Antigoni Parmaxi, Ekaterina Prasolova-Førland, Denis Gillet, Katherine Maillet: "Interdisciplinary Doctoral Training in Technology-Enhanced Learning in Europe," in *Frontiers in Education, section Educational Psychology (Front. Educ.)*, ISSN: 2504-284X, Volume 5, Article 150, 2020, Frontiers Media, pp. 1–12. DOI: 10.3389/feduc.2020.00150

Ekaterina Prasolova-Førland, **Mikhail Fominykh**, and Oscar Ihlen Ekelund: "Empowering Young Job Seekers with Virtual Reality," in *the 26th IEEE Conference on Virtual Reality and 3D User Interfaces (IEEE VR)*, Osaka, Japan, March 23–27, 2019, IEEE, pp. 295–302. DOI: 10.1109/VR.2019.8798179.

Bibeg Limbu, **Mikhail Fominykh**, Roland Klemke, Marcus Specht, and Fridolin Wild: "Supporting Training of Expertise with Wearable Technologies: The WEKIT Reference Framework," in S. Yu, M. Ally and A. Tsinakos Eds., *The International Handbook of Mobile and Ubiquitous Learning*, 2018, Springer, Perspectives on Rethinking and Reforming Education book series (PRRE) ISSN: 2366-1658, eISSN: 2366-1666, ISBN: 978-981-10-6144-8, pp. 157–175. DOI: 10.1007/978-981-10-6144-8_10

Will Guest, Fridolin Wild, Alla Vovk, **Mikhail Fominykh**, Bibeg Limbu, Roland Klemke, Puneet Sharma, Jaakko Karjalainen, Carl Smith, Jazz Rasool, Soyeb Aswat, Kaj Helin, Daniele Di Mitri and Jan Schneider: "Affordances for Capturing and Re-enacting Expert Performance with Wearables," in É. Lavoué, H. Drachsler, K. Verbert, J. Broisin and M. Pérez-Sanagustín Eds. *The 12th European Conference on Technology Enhanced Learning (ECTEL)*, Tallinn, Estonia, September 12–15, 2017, Springer, Book Series: Lecture Notes in Computer Science LNCS, ISSN 0302-9743, volume 10484, ISBN 978-3-319-66609-9, Online ISBN 978-3-319-66610-5, pp. 403–409. DOI: 10.1007/978-3-319-66610-5_34.

Will Guest, Fridolin Wild, Alla Vovk, Paul Lefrere, Roland Klemke, **Mikhail Fominykh**, and Timo Kuula: "Technology Acceptance Model for Augmented Reality and Wearable Technologies," Journal of Universal Computer Science (JUCS), ISSN: 0948-6968, Volume 24, Issue 2, 2018, Technische Universität Graz, pp. 192–219. http://www.jucs.org/jucs_24_2/a_technology_acceptance_model

Ekaterina Prasolova-Førland, Aslak Steinsbekk, **Mikhail Fominykh**, and Frank Lindseth: "Practicing Interprofessional Team Communication and Collaboration in a Smart Virtual University Hospital," in Vladimir Uskov, Jeffrey P. Bakken, Robert J. Howlett, and Lakhmi C. Jain Eds., *Smart Universities: Concepts, Systems, and Technologies*, 2017, Springer, Smart Innovation, Systems and Technologies ISSN: 2190-3018, ISBN: 978-3-319-59453-8, pp. 191–224. DOI: 10.1007/978-3-319-59454-5_7.

Mikhail Fominykh, Ekaterina Prasolova-Førland, Tore C. Stiles, Anne Berit Krogh, and Mattias Linde: "Conceptual Framework for Therapeutic Training with Biofeedback in Virtual Reality: First Evaluation of a Relaxation Simulator," International Journal of Interactive Learning Research (IILR), ISSN: 1093-023X, Volume 29, Issue 1, 2018, AACE, pp. 51–75. https://www.learntechlib.org/p/178528/

Mikhail Fominykh, Peter Leong, and Brenda Cartwright: "Role-playing and Experiential Learning in a Professional Counseling Distance Course," International Journal of Interactive Learning Research (JILR), ISSN: 1093-023X, Volume 29, Issue 2, 2018, AACE, pp. 169–190. Originally presented at EdMedia: World Conference on Educational Media and Technology, Washington DC, USA, June 20–23, 2017. https://www.learntechlib.org/primary/p/178527/

Mikhail Fominykh, Ekaterina Prasolova-Førland, Monica Divitini, and Sobah Abbas Petersen: "Boundary Objects in Collaborative Work and Learning," *Information Systems Frontiers*, ISSN: 1387-3326, EISSN: 1572-9419, 2015, Springer, pp. 1–18. DOI: 10.1007/s10796-015-9579-9.

Mikhail Fominykh and Ekaterina Prasolova-Førland: "Educational Visualizations in 3D Collaborative Virtual Environments: a Methodology," *International Journal of Interactive Technology and Smart Education (ITSE)*, Volume 9, issue 1, 2012, Emerald, ISSN: 1741-5659, pp. 33–45. DOI: 10.1108/17415651211228086