Dr. Eduard Zell

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SKILLS	Expert	Intermediate	
Programming	C++, OpenGL, OpenCL	CUDA, Python, R, CMake	
APIs	Qt, FBX, Eigen	GTest, Mel, Alembic	
Software	Maya, Hairfarm, GIMP	Unreal Engine, Houdini, 3ds Max, Nuke	
Languages	German, English, Russian	Spanish	
EXPERIENCE			
since Nov. 2018	Research Fellow (PostDoc) – Ireland, Trinity College Dublin		
	R&D on facial animation, r	rigging and perception	
July 2018 – Oct. 2018	Researcher – Germany, Berlin		
	preparing a grant proposa	l for a self-funded PostDoc	
Sept. 2017 – June 2018	Senior Software Developer – Germany, Trotzkind GmbH, Berlin		
	developed from scratch:		
	 frame-to-frame mesh registration in volumetric videos 		
	 remeshing, mesh repair an 	d other geometry editing algorithms	
	 example-based skinning 		
	FBX and Alembic importer	/exporter	
Oct. 2010 – Mar. 2018	Assistant Researcher and PhD Student - Germany, CITEC Cluster of		
	Excellence, Bielefeld University		
	 R&D on 3d scanning, editing, animating and rendering virtual faces 		
	established collaborations with research labs in Spain, Ireland, Koreadeveloped custom software for Adidas		
	• co-developed a VR-system for stroke patient rehabilitation		
	 interdisciplinary research of 	on facial perception of digital characters	
	 held lectures in game deve 	elopment and real-time rendering	
Oct. 2016 – May 2017	Parental Leave		
Nov. 2015 – May 2016	Project Head – Germany/Tur	key, SUN start-up network	
	organized with a team a tr	ip consisting of 15 company visits and three	
	networking events to conn	ect with Istanbul's start-up community	
June 2013 – Sept. 2013	June 2013 – Sept. 2013 Visiting Researcher – South Korea, KAIST, Daejeon		
	researched and published	work on facial animation retargeting	
Aug. 2008 – Aug. 2009	Software/Shader-Developer -	- Austria, Vizrt, Schwaz	
	coded 3d computer graph	ics software for TV studios	
Sept. 2006 – Feb. 2007 3D-Artist (Internship) – Germany, RT		nany, RTT (now 3DExcite), Munich	
	real-time visualizations for	Ferrari, Volkswagen and Audi	
June 2004 – Sept. 2004	Clay-Animator (Internship) –	Germany, IfNM, Rostock	

EDUCATION	
Oct. 2010 – June 2017	PhD in Computer Graphics – Germany, Bielefeld
Sept. 2009 – Aug. 2010	Computer Animation and Visual Effects (MSc) – UK, Bournemouth
Sept. 2005 – Feb. 2009	Computer Science and Media (BSc) – Germany, Furtwangen
Feb. 2008 – July 2008	Software Engineering (study abroad) – Spain, Gijón
June 2004	University-entrance diploma – Germany, Rostock
SCHOLARSHIPS	
July 2013 – Aug. 2013	DAAD-NRF-Summer Institute Program (stay abroad in South Korea)
July 2007 – Aug. 2010	"Evangelisches Studienwerk" (scholarship for outstanding students)
Mar. 2008 – Mar. 2011	e-fellows (scholarship for high-potentials)
Feb. 2008 – July 2008	ERASMUS (stay abroad in Spain)
AWARDS	
May 2019	Eurographics PhD Award (Europe's highest award for computer graphics)
Jan. 2019	Faculty Award for outstanding PhD thesis
Mar. 2015	FameLab NRW (2 nd Place) – worldwide science communication competition
Sept. 2013	Eurographics Medical Prize (3 rd Place)
VOLUNTEER	
Oct. 2012 – Oct. 2014	coordinator within the alumni network of the "Evangelisches Studienwerk"
2003 – 2008	various volunteer positions (e.g. student representative, youth leader)
Oct. 2004 – June 2005	Civil service (taking care of drug addicted and disabled people), Caritas
INTERESTS	

traveling, ballroom dances, rock climbing, modern art and architecture

PUBLICATIONS

- Perception of Virtual Characters, Eduard Zell, Katja Zibrek, Rachel McDonnell; SIGGRAPH Course 2019.
- The Secret of Appeal Understanding Perception of Realistic and Stylized Faces, Eduard Zell, *PhD-Thesis, 2018.*
- Facial Retargeting with Automatic Range of Motion Alignment, Roger Blanco i Ribera*, Eduard Zell*, J. P. Lewis, Junyong Noh, Mario Botsch; *ACM Transaction on Graphics 36(4)/SIGGRAPH, 2017*, (*equal contribution).
- Differential Effects of Face-Realism and Emotion on Event-Related Brain Potentials and Their Implications for the Uncanny Valley Theory, Sebastian Schindler*, Eduard Zell*, Mario Botsch, Johanna Kissler; *Nature Scientific Reports, 2017, 7, 45003* (*equal contribution).
- To Stylize or not to Stylize? The Effect of Shape and Material Stylization on the Perception of Computer-Generated Faces, Eduard Zell, Carlos Aliaga, Adrian Jarabo, Katja Zibrek, Diego Gutierrez, Rachel McDonnell, Mario Botsch; ACM Transaction on Graphics 34(6)/ SIGGRAPH Asia, 2015, pp. 184:1-184:12.
- **Accurate Face Reconstruction through Anisotropic Fitting and Eye Correction**, Jascha Achenbach, Eduard Zell, Mario Botsch; *Proc. of Vision, Modeling and Visualization, 2015.*
- A Natural Movement Database for Management, Documentation, Visualization, Mining and Modeling of Locomotion Experiments, Leslie Theunissen, Michael Hertrich, Cord Wiljes, Eduard Zell, Christian Behler, Andre Krause, Holger Bekemeier, Philipp Cimiano, Mario Botsch, Volker Dürr; *Proc. of Living Machines, 2014, pp. 308-319.*
- **ElastiFace: Matching and Blending Textured Faces,** Eduard Zell, Mario Botsch; *NPAR '13: Proc. of the Symposium on Non-Photorealistic Animation and Rendering, 2013, pp. 15-24.*
- OctaVis: A Virtual Reality System for Clinical Studies and Rehabilitation, Eduard Zell, Eugen Dyck, Agnes Kohsik, Philip Grewe, David Flentge, York Winter, Martina Piefke, Mario Botsch; 3rd Place Dirk Bartz Prize for Visual Computing in Medicine (Eurographics Medical Prize), 2013, pp. 9-12.
- OctaVis: An Easy-to-Use VR-System for Clinical Studies, Eugen Dyck, Eduard Zell, Agnes Kohsik, Philip Grewe, York Winter, Martina Piefke, Mario Botsch; *Proc. of Virtual Reality Interaction and Physical Simulation (VRIPHYS), 2012, pp. 127-136.*
- **Developing Design Guidelines for Characters from Analyzing Empirical Studies on the Uncanny Valley,** Eduard Zell, Mario Botsch; *Proc. of ACM International Symposium on Facial Analysis and Animation, 2012, pp. 11:1-2.*

REVIEWER

Symposium on Perception 2019 Eurographics 2018

3 .

Symposium on Computer Animation (SCA) 2018