Petr Kadleček

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RESEARCH INTERESTS		Physics-Based Modeling and Simulation, Haptic Rendering
CURRENT AFFILIATION	2015 – present	**School of Computing, University of Utah** Research Associate
EDUCATION	2013 – present	**Faculty of Mathematics and Physics, Charles University in Prague** Ph.D. in Computer Science: Computer graphics and image analysis Supervisor: Ladislav Kavan Co-supervision: Jaroslav Křivánek
	2011 – 2013	**Faculty of Mathematics and Physics, Charles University in Prague** Master in Computer Science: Computer graphics (Czech title: Mgr.) Graduated *Summa Cum Laude* Thesis title: "Haptic rendering for 6/3-DOF haptic devices"
	2007 – 2010	**Faculty of Mathematics and Physics, Charles University in Prague** Bachelor in Computer Science (Czech title: Bc.) Thesis title: "A Practical Survey of Haptic APIs"
PUBLICATIONS	2016	**Reconstructing Personalized Anatomical Models for Physics-based Body Animation** *Petr Kadlecek, Alexandru-Eugen Ichim, Tiantian Liu, Jaroslav Krivanek, Ladislav Kavan.* *ACM Transaction on Graphics 35(6) [Proceedings of SIGGRAPH Asia], 2016*
	2014	**Haptic rendering for under-actuated 6/3-DOF haptic devices** *Kadleček, Petr and Kmoch, Petr and Křivánek, Jaroslav* Haptics: Neuroscience, Devices, Modeling, and Applications. Springer Berlin Heidelberg, 2014. 63-71. (Book chapter)
	2011	**Overview of current developments in haptic APIs** *Kadleček, Petr and Kmoch, Petr* In proceedings of CESCG 2011 (Central European Seminar on Computer Graphics for students)
REVIEWER	2016	**IEEE Transactions on Human-Machine Systems**

COMPLETED PROJECTS	2012 (14 months)	**Stubble – Virtual hair brushing for production environments**

Position: Team leader and developer of haptic input support

Student team software project at MFF UK. Production ready plugin for Autodesk Maya for procedural generation, editing and rendering of hair in computer animated scenes. Made in cooperation with Universal Production Partners.

WORK EXPERIENCE	2010 – 2015	**VUSTE-APIS, s.r.o.**

Position: Senior Solution Architect

Analysis, development and administration of Integrated Web Development Environment and Framework (Java EE, Oracle DB, PL/SQL, JavaScript, jQuery)

2005 – 2010   VUSTE-APIS, s.r.o.

Position: Software developer

Analysis, development and administration of Customer Relationship Management (CRM) and Enterprise Resource Planning (ERP) web applications (PHP, PostgreSQL, JavaScript)

2009 (1 month)   Partnership Pictures, s.r.o.

Position: External software developer

Budget software development and integration (Apple Mac OS X/Microsoft Windows compatible Microsoft Office application)

LANGUAGES   Czech (native), English (advanced), German (basic), Polish (basic)