PERSONAL INFORMATION

Ágoston Sipos

- Tata (Hungary)
- agoston.sipos.95@gmail.com
- http://3dgeo.iit.bme.hu/~sipos
- https://github.com/agostonsipos
- https://www.linkedin.com/in/agoston-sipos

WORK EXPERIENCE

September 2018–Present

Research assistant

Dept. of Control Engineering and Informatics,
Budapest University of Technology and Economics, Budapest (Hungary)

- ◇ Taking part in a research group for geometric modeling
- ◇ Teaching courses in programming for undergraduates

September 2016-May 2018

Graduate teaching assistant

Dept. of Algorithms and their Applications,
Eötvös Loránd University, Budapest (Hungary)

- ◇ Teaching Computer Graphics, and developing additional material for education

June 2015–August 2016

Software development intern

Morgan Stanley, Budapest (Hungary)

- ◇ Developing and maintaining financial mathematical software in C++

EDUCATION AND TRAINING

September 2018–Present

PhD studies

Budapest University of Technology and Economics, Budapest (Hungary)

- ◇ Research topic: Application of general topology surfaces in CAGD

2016-2018

Computer Science MSc

Eötvös Loránd University, Budapest (Hungary)

- ◇ Main specialization: mathematical modeling
- ◇ Other specializations: signal processing, computer graphics
- ◇ Cumulative GPA: 4.93 (1-5 scale)
- ◇ Thesis: Efficient optimization for higher order curve segments

2013-2016

Computer Science BSc

Eötvös Loránd University, Budapest (Hungary)

PROFESSIONAL SKILLS

Work-related skills

- ◇ Research skills, both alone and in a research group
- ◇ Teaching skills, leading small group practices at university
- → English communication skills from teaching foreign students in English language courses.

Computer skills	◇ Good knowledge of mathematical analysis, numerical methods, computer graphics and GPU programming (OpenGL), 3D modeling systems
	◇ Coding experience in C++, Julia and PHP; some knowledge of Python, Javascript, Matlab
	◇ Experience with administrating Linux servers and hosting websites

LANGUAGE SKILLS

Mother tongue Hungarian

Other languages

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C1	C1	C1	B2	B2
German	B1	B2	A2	B1	B1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2: Proficient user
Common European Framework of Reference (CEF) level

ADDITIONAL INFORMATION

Publications

◇ Sipos, Ágoston; Várady, Tamás; Salvi, Péter; Vaitkus, Márton. *Multi-sided implicit surfacing with I-patches*, Computers & Graphics, Vol. 90, pp. 29-42, 2020

◇ Várady, Tamás; Salvi, Péter; Vaitkus, Márton; Sipos, Ágoston. *Multi-sided Bézier surfaces over curved, multi-connected domains*, Computer Aided Geometric Design, Article 101828, 2020

◇ Sipos, Ágoston. *A G^n rational spline with an algebraic distance field*, Proceedings of the Workshop on the Advances of Information Technology, pp. 112-116, 2020

◇ Sipos, Ágoston; Valasek, Gábor. *Construction of approximately optimal curve segments*, Proceedings of the 9th Hungarian Conference on Computer Graphics and Geometry, pp. 21-26, 2018

◇ Bán, Róbert; Hajder, Levente; Komáromi, Mátyás; Sipos, Ágoston. *Edge Detection by Plane Fitting*, Proceedings of the 9th Hungarian Conference on Computer Graphics and Geometry, pp. 182-186, 2018

Research interests

◇ Continuous surface representations

◇ Differential geometry, surface analysis

◇ 3D surface modeling systems

◇ Computer graphics and visualization