

# Márton Kolossváry

March 17. 1991. • Summit NJ, USA

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<b>EDUCATION</b>	<b>2009 –</b>	<b>Semmelweis University – Faculty of Medicine</b> Medical student
	<b>2012 –</b>	<b>Pázmány Péter Catholic University – Faculty of Information Technology and Bionics</b> Complementary studies
	<b>2003 – 2009</b>	<b>St. Stephan Secondary School, Budapest</b> Specialization in science

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<b>RESEARCH</b>	<b>2011 –</b>	<b>Semmelweis University – Heart and Vascular Center</b> Supervisor: Pál Maurovich - Horvat MD, PhD, MPH MTA – SE Cardiovascular Imaging Research Group
	<b>2011 –</b>	<b>Semmelweis University – MR Research Center</b> Supervisor: Lajos R. Kozák MD, PhD Perinatal Asphyxia Imaging Research Group

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<b>EXPERIENCE</b>	<b>2013 –</b>	<b>MTA – SE Cardiovascular Imaging Research Group</b> Research assistant
	<b>2013 –</b>	<b>Semmelweis University – Department of Anatomy, Histology and Embryology</b> Anatomy practice lecturer
	<b>2013 –</b>	<b>Semmelweis University – II. Department of Pathology</b> Pathology practice assistant

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<b>LANGUAGE</b>	<b>English C1 certificate</b>
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<b>AWARDS</b>	<b>2013</b>	<b>Stephen W. Kuffler Research Scholarship</b> <b>Academic Scholarship of Hungary</b> <b>XXXI. National Conference of Scientific Students' Association</b> 1 <sup>st</sup> place, MRI session <b>European Congress of Radiology 2013, Vienna</b> Session winner, Rising Stars session <b>Scientific Students' Conference – Semmelweis University</b> 1 <sup>st</sup> place Cardiology session 3 <sup>rd</sup> place Radiology session
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2012

**Academic scholarship of Hungary**

**XIX. International Student Congress of (bio)Medical Sciences, Groningen**

1<sup>st</sup> place Neonatology session

1<sup>st</sup> place Cardiology session

**Scientific Students' Conference – Semmelweis University**

1<sup>st</sup> place Radiology session

2<sup>nd</sup> place Cardiology session

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## MEMBERSHIPS

**Kerpel-Fronius Ödön Talent Nurturing Program**

**List of Excellency – Semmelweis University**

**Hungarian Society of Cardiology**

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## EXPERTISE

**SPM (UCL), FSL (Oxford) Image analysis software**

**MatLab programming**

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## HOBBIES

**Music composition, Piano Playing**

**Bicycling, Running, Ultimate Frisbee, Handball**

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## SCIENTIFIC RESUME

My love for science dates back to my childhood when the complexity and order of nature had first intrigued me to explore my surroundings. During my first years in medical school anatomy and physiology had a great impact on me, and led me to do research at two widely acknowledged imaging centers in Hungary.

Since 2011 I have been a member of the Cardiac Imaging group at Semmelweis University's Heart and Vascular Center. From the beginning I have had a significant role in the establishment of the databases ([www.biobankok.hu](http://www.biobankok.hu)) aiding our researchers. Among other projects, I studied the impact of different heart rates on overall image quality, pointing out that arrhythmia doesn't have to be a contraindication to cardiac CT angiography. Since the kick-off of my supervisor: Pál Maurovits-Horvat's MTA – SE Cardiovascular Imaging Research Group, in cooperation with Budapest University of Technology and Economics' researchers I have been studying the geometry of the coronary arteries, and its impact on coronary atherosclerosis.

From 2011, under the supervision of Lajos R. Kozák, I have been investigating infants' Diffusion Tensor Images who underwent perinatal asphyxia. My results show that MRI images taken in the first days of life can indicate later neurodevelopment outcome. I am planning on further investigating the topic, and hopefully determining which regions are affected the earliest and the most severely. These results may help to better understand the dynamics of asphyxia, and may contribute to a more quantitative assessment of injury, thus pinpointing those infants for clinicians, who are most in need of neuroprotective therapies.

In the future, I plan on broadening my knowledge in medical imaging and analysis. I wish to expand my expertise in data analysis with the help of Pázmány Péter Catholic University's faculty of Bionics. I hope my results will contribute to the knowledge base of medicine, and overall help clinicians' decision making.

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