

Szabolcs Márka holds the ‘Walter O. LeCroy Jr. Professor’ chair of Physics at Columbia University in the City of New York, Manhattan, USA. He is an experimental physicist and serial inventor with broad interdisciplinary expertise, currently interested in advancing biophysics, astrophysics, and natural and artificial brains.

He is a co-discoverer of cosmic gravitational waves and a pioneer of multimessenger astrophysics. His work integrates gravitational waves, high-energy neutrinos, and gamma rays into a unified framework for exploring the universe and to establish and advance Synergistic Astrophysics via combining humanity’s scientific instruments, data streams, and analytical insight into a single, coherent, global sensor to deepen our understanding of the cosmos.

His research has received extensive international media coverage, including The New York Times, The Wall Street Journal, The Economist, Forbes, BBC, CNN, Bloomberg, Scientific American, National Geographic, Die Zeit, and Foreign Policy. His biophysics work has also been featured in The New York Times Magazine’s Year in Ideas and in flagship New York Times front-page and quote coverage surrounding the gravitational-wave discovery.

He has served broadly as an advisor and reviewer for major institutions and funding agencies, including national laboratories, BSF, NSF, ISF, HUN-REN, and NASA. He is a recipient of the Blavatnik Prize and a co-recipient of the Breakthrough and Gruber Prizes as part of the LIGO discovery team, among other major honors.

He has several patents and authored or co-authored over 900 scientific publications across instrumentation, nuclear physics, astrophysics, particle and fundamental physics, biophysics, biology, and public outreach, with more than 160,000 citations reported by Google Scholar. Beyond fundamental discovery, he believes scientists have a responsibility to improve human life on Earth. He is a long time contributor to Pet Kupa a major environmental clean-up effort. He is committed to applying scientific creativity to help people live happier, healthier, and longer lives and believes that science, art, and exploration together make life worth living.