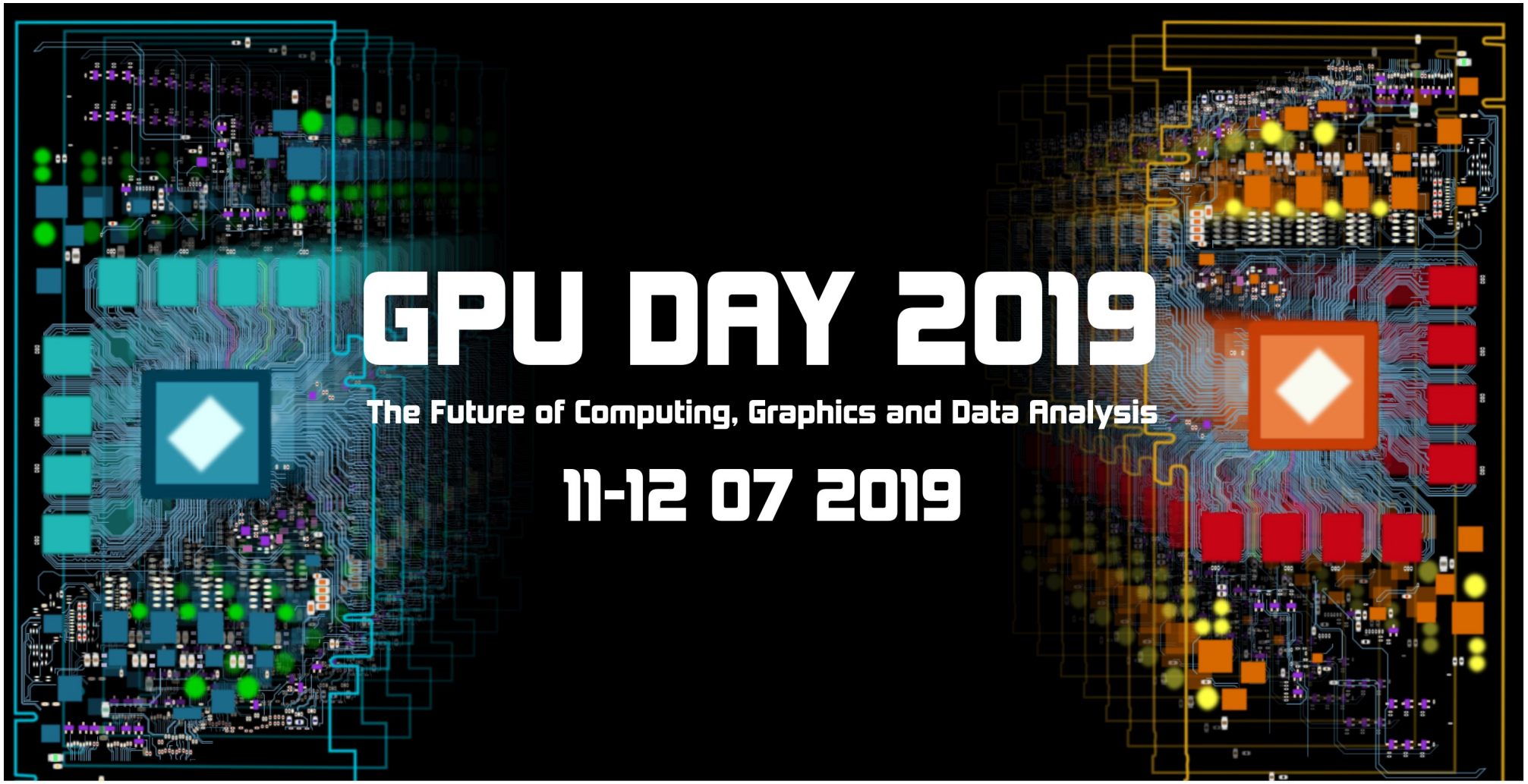


Eötvös University, Faculty of Informatics, Budapest, Hungary, 11-12 July 2019

The Wigner GPU Laboratory

The aim of the Wigner GPU Laboratory is to provide support for any fields in science in sense of parallel computing techniques, especially for faster numerical calculations in gravitational and high-energy physics, astronomy, astrophysics, material sciences, and detector simulations. We have started with GPU technologies in 2009, but later our aim was improved to any kind of parallel computing technology. Today, many- and multi-core, GPU, FPGA, Xeon Phi technologies are all available in the laboratory. Beside the academic environment and other institutes, we have connections to industrial partners as well.

History

- 2005-2008 Idea of using GPU in HEP calculations

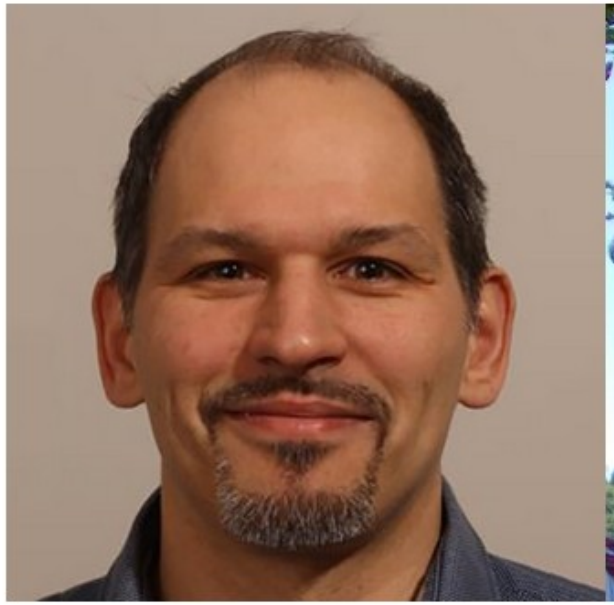
  Starting of the WLCG Grid (ALICE & CMS) Tier-2 at the Wigner
- 2009 Discussion with GGB & P. Lévai & G. Debreczeni

  2 main direction: HEP & Gravity
- 2010- 1st GPU Day & formation of the Wigner GPU Laboratory

  Students: M. F. Nagy(-Egri) & D. Berényi
- 2010- GPU Day series
- 2016- Lectures on Modern Computing in Science series

  2016- Wigner GPU Lab Fellowship

The Staff



Barnaföldi, Gergely Gábor

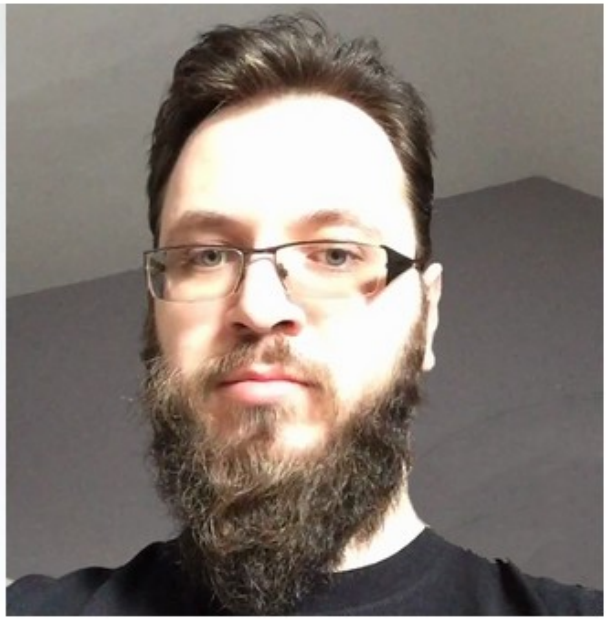
LEADER OF THE LOCAL ALICE GROUP AND GPU LAB.

Nagy-Egri, Máté Ferenc

PHD STUDENT

Berényi, Dániel

PHD STUDENT



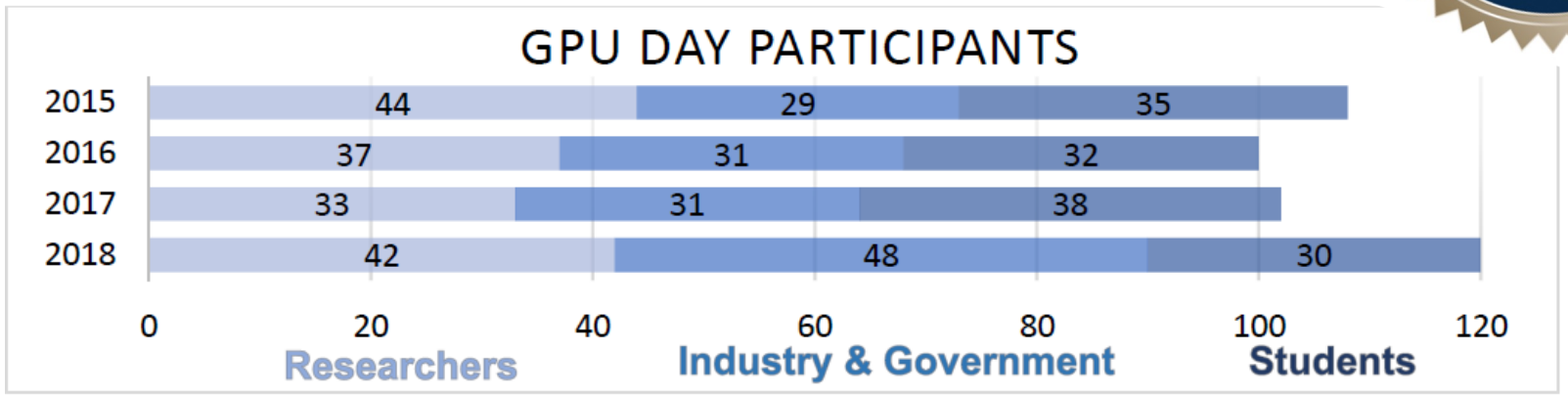
Kacskovics, Balázs

ADMINISTRATOR

Academic & Industrial Partners

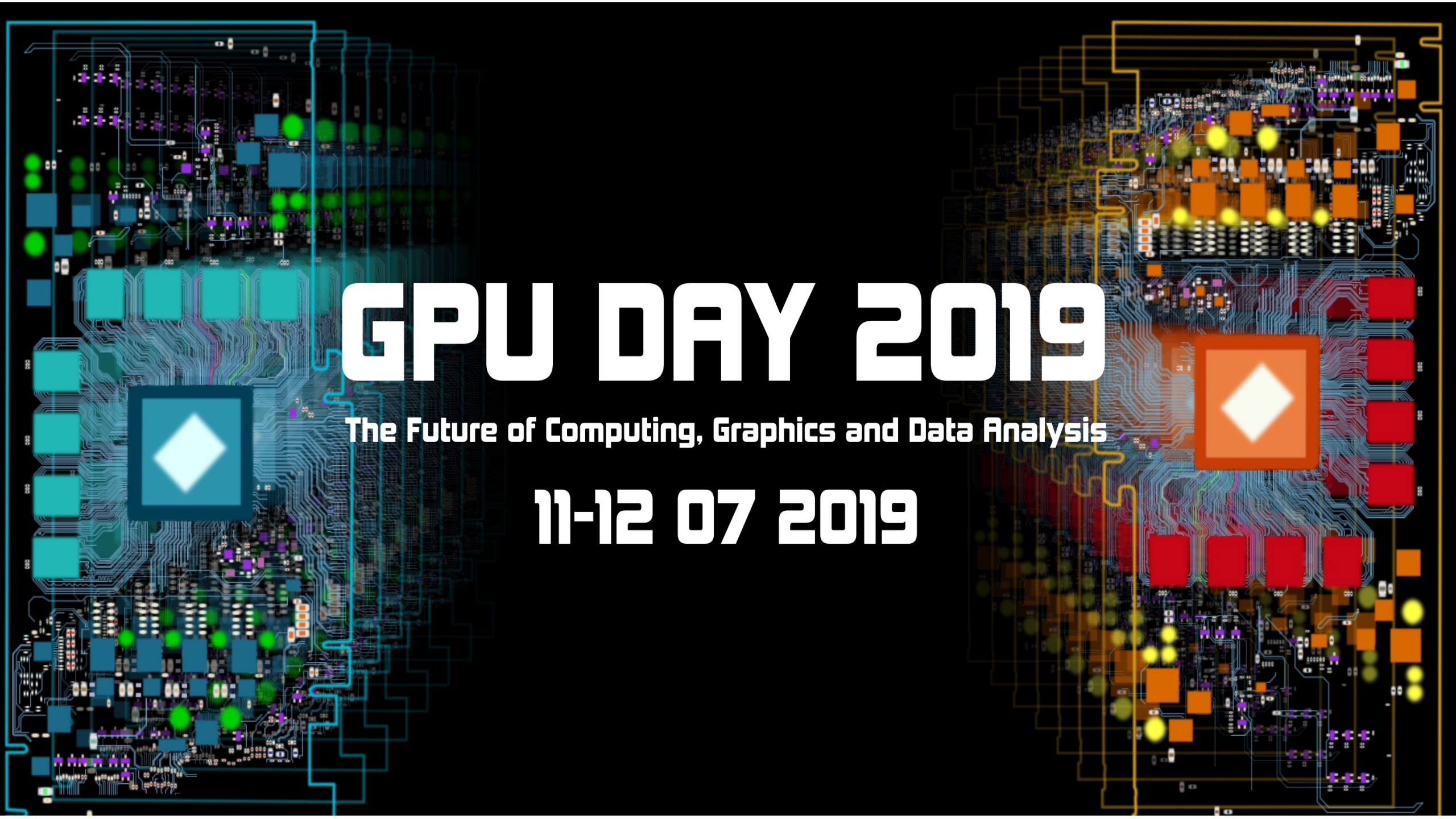
Results in numbers

- 5 Lectures on Modern Computing in Science
- 9 GPU Days



- 18 Wigner GPU Lab Fellowship
  - 12 finished fellowships
  - 6 running fellowships
- 22+ industrial & academic partners (Lombiq LTD, Khronos, CERN)
- 21+ scientific publications and program codes

The GPU Day 2019 Sponsors


GPU DAY 2019
The Future of Computing, Graphics and Data Analysis
11-12 07 2019

See more: http://gpu.wigner.mta.hu