DR. KRZYSZTOF BOŻEK

I have been analysis data taking us back almost 14 billion years ago, to the time just after the Big Bang. Times unexplored by anybody else!



CONTACT & INFO

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SKILLS



REFERENCES

References available upon request.

EXPERIENCE

- 🛗 Sep. 2021 current Self-development & volunteering München, Germany o automated repositories for undergraduate computer lab & analyses combination (Python, Docker, git), o self-hosted gitlab (incl. custom runners), mattermost and nextcloude servers (Docker, bash), o increasing knowledge of algorithms (leetcode) & data-science (Kaggle & Linkedin Learning) (Python, C++, SQL). o learning German (A2, B1 & B2 online courses by Goethe Institute). 🛗 Apr. 2018 - Aug. 2021 Postdoctoral researcher University of Freiburg, Germany • Data analysis on data from the LHC, CERN (ATLAS Collaboration; C++, grid, Python, Docker), $> 5 \times$ improvement in a Supersymmetry (stop-) search, o developed a workflow and framework for data consistency checks currently used in ATLAS SUSY group (Python, git, Docker), • working in international teams of various sizes (ranging from 2-50), • responsible for wide range of tasks (software/analysis development, documentation, paper editing/writing, work presentation), • running codes locally, on batch systems, and on the grid, o academic teaching, including content and framework preparation for remote teaching. 🛗 Oct. 2013 – Jun. 2018 PhD Student & Graduate Teaching Assistant King's College London, UK • Development of String Theory-derived models & predictions for future 100 TeV particle collider, o wide range of skills required (programming & data analysis (C++, Python), critical thinking, problem solving, etc.), • published impactful paper (> 35 citations), academic teaching (physics & computer science), o involved in outreach activities, e.g. Pint of Science London or V&A Digital Design Weekend. 🛗 Jul. - Sep. 2012 Summer Student CERN, Switzerland • Improving W-jet tagging with the multivariate techniques in the CMS Experiment at CERN (C++). • 2× improvement compare to previous cut-based methods. Summer Student 🛗 Jul. - Sep. 2011 DESY, Germany • Parameter optimisation of Monte Carlo simulations (C++), • better data/MC agreement was achieved with proposed tunes (achieving $2 \times$ better fits). 🛗 Jul. 2010 Intern INP Krakow, Poland • Building and testing a coincidence device (C), • lab-work with microcontroller programming. **EDUCATION** 🛗 Oct. 2013 - Jun. 2018 PhD, Theoretical Physics "Particle phenomenology from M theory inspired models".
 - Development of String Theory-derived models & predictions for a prospective 100 TeV particle collider.

Master of Science, Physics

- "Numerical studies of the Balitsky-Kovchegov equation in the integral form". • Graduated with honours,
 - o development and interpretation a novel Markov Chain Monte Carlo method solving a non-linear integral equation in QCD.

Bachelor of Science, Physics

- "Monte Carlo simulations of low background gaseous detector".
- Implemented simulations for studies into ultra-low-background gaseous detectors.

King's College London, UK

🛗 Oct. 2011 - Jul. 2013

Jagiellonian University, Poland

🛗 Oct. 2008 - Jun. 2011

Jagiellonian University, Poland