Oleksandr Tomalak, Ph.D.

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Experience

- Advanced Research in Neutrino, Hadron, and Nuclear Physics resulting in collaborative grants, mentoring and communication skills as
- since 2025 **Associate Professor**, Institute of Theoretical Physics, Chinese Academy of Sciences, Beijing, P. R. China.
- 2021–2024 Director's Postdoctoral Fellow, Los Alamos National Laboratory, NM, USA.
 - Bringing Radiative Corrections and Modern Nucleon Structure to Neutrino Physics, mentoring and communication skills as
- 2018–2021 **Postdoctoral researcher**, University of Kentucky, Lexington, KY, USA and Fermilab, Batavia, IL, USA.
 - Theory of Atomic Physics and Lepton Scattering, mentoring skills as
- 2016–2018 Postdoctoral researcher, Johannes Gutenberg-Universität Mainz, Mainz, Germany.
 - Precise Nucleon Structure, teaching and communication skills as
- 2012–2016 Ph.D. student, Johannes Gutenberg-Universität Mainz, Mainz, Germany.
 - Analytical and Numerical Calculations in Early Universe Cosmology as
- 2012–2015 Ph.D. student, Taras Shevchenko National University, Kyiv, Ukraine.
 - Programming and advanced communication skills as
- 2015–2017 Guest scientist, Department of Physics, University of Pavia, Pavia, Italy.
 - Data analysis, detector monitoring, and data taking as
- 2010–2011 Member of D0 Collaboration, D0 Experiment, Fermilab, Batavia, IL, USA.
 - Calibration of detectors in high-energy physics experiment as
- 2009–2010 Bachelor student, ZEUS Experiment, DESY, Hamburg, Germany.

—— Computer Skills

- Wolfram Mathematica	- LaTeX	- C, C++	- Bash
- Maple	- Origin	- Fortran	- Batch
- Mathcad	- DataGraph	- Python, R	- Root
- Windows	- Linux	- OS X	- JaxoDraw
- HTML, CSS	- SQL	- JavaScript	- Jinja
- Flask, Django	- office software	- video conferencing software	

Languages

English	Fluent	${ m C1\ level\ (JGU\ Mainz,\ 2018)}$
German	Upper intermediate	C1 level (JGU Mainz, 2018)
Russian	Fluent	
Ukrainian	Fluent	

Education

- 2012–2016 **Ph.D. in Theoretical Physics**, Johannes Gutenberg-Universität Mainz, Mainz, Germany, Summa Cum Laude.
- 2010–2012 **MS in Theoretical Physics**, Taras Shevchenko National University, Kyiv, Ukraine, *Red Diploma*.

Speciality: Nuclear and Particle Physics, Quantum Field Theory

2006–2010 **BS in Physics**, Taras Shevchenko National University, Kyiv, Ukraine, *Red Diploma*. Speciality: Nuclear and Particle Physics, Quantum Field Theory

Professional Activities

Organized 7 Meetings and Conferences

Refereed for 16 Journals

Mentored 6 Students

Wrote 9 Collaborative Research Proposals: 6 Proposals funded

Support from 6 Research Fellowships

69 Peer-Reviewed Journal Articles

The up-to-date publication and citation information can be found on the web page:

https://inspirehep.net/authors/1077543

ORCID: 0000-0002-4827-5842

161 Professional Presentations

48 Invited Talks

102 Contributed Talks

11 Posters at International Conferences

Selected Awards and Honors

- 2020–2021 Universities Research Association (URA) Salary Support, Fermilab, USA
 - 2019 Universities Research Association (URA) Visiting Scholars Program, Fermilab, USA
 - 2017 Prize for Outstanding Doctoral Research, Faculty 08: Physics, Mathematics and Computer Science, Johannes Gutenberg-Universität Mainz, Mainz, Germany
 - 2012 Alumnus of the Year, Taras Shevchenko National University, Kyiv, Ukraine
 - 2008 3rd degree diploma, member of the Faculty Team, Ukrainian Physicists' Tournament for University Students, Kyiv, Ukraine
 - 2007 2nd degree diploma, member of the Faculty Team, Ukrainian Physicists' Tournament for University Students, Kyiv, Ukraine
 - 2007 Absolute Winner of Ukrainian Students Olympiad in Theoretical Physics, Kharkiv, Ukraine
 - 2006 3rd degree diploma, member of the Faculty Team, Ukrainian Physicists' Tournament for University Students, Kyiv, Ukraine
 - 2006 Silver Medal, 37th International Physics Olympiad, Singapore



July 22, 2025