



dong jo, kim

Curriculum Vitae

Present Status

2021-current

- + University Lecturer
- + Department of Physics, University of Jyvaskyla, Finland

2017-2020

- + Senior Researcher
- + Department of Physics, University of Jyvaskyla, Finland

2019

- + Title of Docent
- + Department of Physics, University of Jyvaskyla, Finland

2013-2016

- + Senior Researcher
- + Helsinki Institute of Physics, Finland

2010-2012

- + Senior Researcher
- + Department of Physics, University of Jyvaskyla, Finland

2006-2010

- + Postdoctoral Researcher
- + Department of Physics, University of Jyvaskyla, Finland

2005-2006

- + Researcher Associate
- + Department of Physics, University of Yonsei, Republic of Korea
- + Visiting Scientist
- + Los Alamos National Lab, New Mexico, USA

2000-2005

- + Visiting Scientist
- + Brookhaven National Lab, New York, USA

Education

- 2000-2004 **Ph.D.**, *University of Yonsei, Seoul, South Korea.*
- 1998-1999 **Ms.D.**, *University of Yonsei, Seoul, South Korea.*
- 1992-1998 **Bs.D.**, *University of Yonsei, Seoul, 2 years Military service.*

Ph.D thesis

title *J/ψ production in d+Au and p+p collisions at $\sqrt{s} = 200\text{GeV}$*
supervisors J.H Kang, Y.J Kweon, I.D Jeon, K.S Ju, I.H Park
description Nuclear Physics

Master thesis

title *Optical Tension Measurement of Fine Wires for Muon tracking chamber in PHENIX*
supervisors J.H Kang, Y.J Kweon, I.D Jeon
description Nuclear Physics

Research Experience

1997–present **PHENIX Collaboration**, RHIC, BNL, Brookhaven National Lab.
2006–present **ALICE Collaboration**, LHC, CERN, European Organization for Nuclear Research.

Research activities

- 1997–1998 **PHENIX Muon Identification and Muon Tracking Chamber construction and Electronics test at BNL, PHENIX, RHIC, BNL.**
- 1998–2000 **1. PHENIX Muon Tracking Chamber test setup and Chamber resolution study at BNL, PHENIX, RHIC, BNL.**
2. PHENIX Muon Arm Calibration software development, PHENIX, RHIC, BNL.
- 2002–2004 **1. PHENIX Online Calibration Manager at BNL, PHENIX, RHIC, BNL.**
2. PHENIX Deputy Data Production Manager at BNL, PHENIX, RHIC, BNL.
3. Development of PHENIX Muon Tracker Reconstruction software, PHENIX, RHIC, BNL.
4. Establish Yonsei Linux cluster and reconstruction manager, PHENIX, RHIC, BNL.
- 2006–2007 **1. Publication of J/ψ measurements in various collision species, PHENIX, RHIC, BNL.**
2. The final result of open charm measurement in various collision species, PHENIX, RHIC, BNL.
- 2008–2013 **1. ALICE Jet and Flow Correlation analysis, ALICE, LHC, CERN.**
2. PHENIX direct photon Correlation analysis, PHENIX, RHIC, BNL.
3. ALICE Grid Computing project leader for Finland, ALICE, LHC, CERN.
4. Jyvaskyla M-Grid Computing management, ALICE, LHC, Finland.
5. Rapidity Gap analysis in PHENIX/ALICE, ALICE, LHC, CERN.
6. ALICE Central Trigger System(CTP)analysis and Monitoring software development, ALICE, LHC, CERN.
7. ALICE Jet Correlation Analysis Task contact person, ALICE, LHC, CERN.
8. ALICE Shift Management System and Collaboration Database Development and contact person, ALICE, LHC, CERN.
- 2014–2019 **9. ALICE Flow Analysis working group convenor, ALICE, LHC, CERN.**

- 2014–current
1. **ALICE Flow and Jet Correlation analysis**, *ALICE*, LHC, CERN.
 2. **ALICE Grid Computing project leader for Finland**, *ALICE*, LHC, CERN.
 3. **ALICE Correlation and Jet Physics group member**, *ALICE*, LHC, CERN.
 4. **Paper Review Committee**, *ALICE*, LHC, CERN.

Teaching Experience

- 1992–2002 **Tutors for high school students**, *Mathematics*, English, Physics.
- 1997–1999 **Teaching Assistant**, *Physics*, Yonsei, University.
- 2001–2002 **Teaching Assistant**, *Physics*, Yonsei, University.
- 2015–2016 **Teaching**, *Jyvaskyla University*, Experimental Methods in Particle Physics.
- 2008–current **Teaching**, *Jyvaskyla University*, Ultra-relativistic Heavy Ion Physics.

Leadership and supervision experience

- 2014–2015, *Tomas Snellman*, MSc supervisor, Jyvaskyla University, Finland.
- 2015–2016, *Elias Barba Moral*, MSc supervisor, Jyvaskyla University, Finland.
- 2016, *Myeongguen Song*, Ph.D. opponent, Yonsei University, Korea.
- 2016–2017, *Jasper Parkkila*, MSc supervisor, Jyvaskyla University, Finland.
- 2017–2018, *Oskari Saarimaki*, MSc supervisor, Jyvaskyla University, Finland.
- 2016–2019, *Tomas Snellman*, Ph.D. supervisor, Jyvaskyla University, Finland.
- 2017–2020, *Jasper Parkkila*, Ph.D. supervisor, Jyvaskyla University, Finland.
- 2019, *Hyeonjoong Kim*, Ph.D. opponent, Yonsei University, Korea.
- 2018–current, *Oskari Saarimäki*, Ph.D. supervisor, Jyvaskyla University, Finland.
- 2020–current, *Anna Önerstad*, Ph.D. supervisor, Jyvaskyla University, Finland.
- 2020–current, *Heidi Rytönen*, Ph.D. supervisor, Jyvaskyla University, Finland.
- 2021–current, *Laura Huhta*, Ph.D. supervisor, Jyvaskyla University, Finland.
- 2021–current, *Maxim Virta*, Ph.D. supervisor, Jyvaskyla University, Finland.
- 2021–current, *Cindy Mordasini*, Postdoc supervisor, Jyvaskyla University, Finland.

Student Training

- 2009, *Mikko Kervinen*, CERN/HIP Summer Internship, CERN, Switzerland.
- 2011, *Esko Pohjoisaho*, CERN/HIP Summer Internship, CERN, Switzerland.
- 2014, *Tomas Snellman*, CERN Summer Internship, CERN, Switzerland.
- 2015, *Elias Barba Moral*, Jyvaskyla Summer Internship, Jyvaskyla University, Finland.
- 2016, *Jasper Parkkila*, CERN/HIP Summer Internship, CERN, Switzerland.
- 2017, *Oskari Saarimaki*, CERN/HIP Summer Internship, CERN, Switzerland.
- 2017, *Nimmitha Karunathna*, CERN Summer Internship, CERN, Switzerland.
- 2017, *Teemu Kovanen*, Jyvaskyla Summer Internship, Jyvaskyla University, Finland.
- 2018, *Elin Nyman*, CERN/HIP Summer Internship, CERN, Switzerland.
- 2022, *Teemu Kallio*, Jyvaskyla Summer Internship, Jyvaskyla University, Finland.

Computer skills

Database/Web	ALICE Shift Management System[SMS] Development
Database/Web	ALICE Collaboration Database[ACDB] Development
GRID	Grid Service management for LHC/ALICE in Finland with Nordic Data Grid Facility(NDGF)
C/C++	Extensive C and C++ programming experiences
Scripting	Extensive use of shell scripting for automatic data processing, shell, Perl, Tcl/Tk, python
Database	Working knowledge of Database(OBJY, Postgres, MySQL)
System	Working knowledge of Unix, Linux(System administration)
System	Experiences of Linux clustering
Programming	Extensive use of ROOT, HTML, Labview, and Latex
Electronics	Working knowledge of CAMAC and VME

Research Interests

QGP	The properties of hot partonic matter(so-called QGP(Quark-Gluon Plasma)) by using flow and high- p_T particle or jet correlation technique
(p)QCD	The measurement of partonic primordial momenta, k_T , the fragmentation function, two-particle correlation, and jets
Data Analysis	C++ based large scale data analysis framework development and Grid Computing
Hardware	Fast Jet Trigger module development with EMCAL(Electro Magnetic Calorimeter)
Hardware	Detector upgrade projects, Time Projection Chamber and Forward detectors in ALICE experiment

Talks, presentations

Scientific talks over 80, [link](#).

Research output

Peer reviewed articles over 500, [link](#).

Selected publications, [link](#).

Merits

Funding	2022-2030 , <i>Centre of Excellence in Quark Matter</i> , University of Jyväskylä, Finland.
Teaching	2022 , <i>ALICE Thesis award by Jasper Parkkila</i> , CERN, Switzerland.
Teaching	2019 , <i>University Pedagogy study</i> , University of Jyväskylä, Finland.

Hobbies

- 1998-2000**, *Hapkido*, Seoul, Korea.
- 2009-2013**, *Hapkido*, Jyväskylä, Finland.
- 2014-2017**, *Football*, Komeetat, Jyväskylä, Finland.
- 2018-current**, *Football*, JK Cityketut, Jyväskylä, Finland.
- 2013-current**, *Ultimate frisbee*, Jyli, Jyväskylä, Finland.
- 2000-2005**, *Basketball*, BNL Basketball team, New York, USA.

2015-current, *Basketball*, JyNMKY, Jyvaskyla, Finland.

–, *Running*, *Swimming*, *Cross country ski*.

More information

can be found at <https://github.com/dongjokim/dongjokim.github.com> including the full cv, ..