



dong jo, kim

Curriculum Vitae

Present Status

2017-current

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

2013-2016

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

2010-2012

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

2006-2010

- + Postdoctoral Researcher
- + Department of Physics, University of Jyväskylä, 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.
- 2004–2005
1. **J/ψ analysis in various collision energies and systems**, PHENIX, RHIC, BNL.
 2. **Light Hadrons and open charm analysis in various collision energies and species**, PHENIX, RHIC, BNL.
 3. **Establish Yonsei Linux cluster and reconstruction manager of $d + Au$ data in PHENIX**, PHENIX, RHIC, BNL.
- 2006–2007
1. **Publication of J/ψ measurements in various collision energies and species**, PHENIX, RHIC, BNL.
 2. **Final result of open charm measurement from $d + Au$ and $Au + Au$ at $\sqrt{s} = 200\text{GeV}$** , PHENIX, RHIC, BNL.
- 2008–2013
1. **ALICE Jet and Flow Correlation analysis**, ALICE, LHC, CERN.
 2. **PHENIX direct $\gamma - hadron$ 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. **ALICE Central Trigger System(CTP)analysis and Monitoring software development**, ALICE, LHC, CERN.
 6. **ALICE Jet Correlation Analysis Task contact person**, ALICE, LHC, CERN.
 7. **ALICE Shift Management System and Collaboration Database Development and contact person**, 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. **ALICE Flow Analysis working group convenor**, ALICE, LHC, CERN.

5. ALICE internal Paper Review Committee for various papers, ALICE, LHC, CERN.

Teaching Experiences

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

Students

2014–2015, *Tomas Snellman*, MSc supervisor, Jyväskylä University, Finland.
2015–2016, *Elias Barba Moral*, MSc supervisor, Jyväskylä University, Finland.
2016, *Myeongguen Song*, PhD opponent, Yonsei University, Korea.
2016–2017, *Jasper Parkkila*, MSc supervisor, Jyväskylä University, Finland.
2017–2018, *Oskari Saarimaki*, MSc supervisor, Jyväskylä University, Finland.
2016–current, *Tomas Snellman*, PhD supervisor, Jyväskylä University, Finland.
2017–current, *Jasper Parkkila*, PhD supervisor, Jyväskylä University, Finland.
2019, *Hyeonjoong Kim*, PhD opponent, Yonsei University, Korea.

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*, Jyväskylä Summer Internship, Jyväskylä University, Finland.
2016, *Jasper Parkkila*, CERN/HIP Summer Internship, CERN, Switzerland.
2017, *Oskari Saarimaki*, CERN/HIP Summer Internship, CERN, Switzerland.
2017, *Nimmitha Karunarathna*, CERN Summer Internship, CERN, Switzerland.
2017, *Teemu Kovanen*, Jyväskylä Summer Internship, Jyväskylä University, Finland.
2018, *Elin Nyman*, CERN/HIP Summer Internship, CERN, Switzerland.

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

- (p)QCD The measurement of partonic primordial momenta, k_T , the fragmentation function, two particle correlation and jets
- 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
- 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

Hobbies

- 1998-2000**, *Hapkido*, Seoul, Korea.
- 2009-2013**, *Hapkido*, Jyväskylä, Finland.
- 2014-current**, *Football*, Komeetat, JJK Cityketut, Jyväskylä, Finland.
- 2013-current**, *Ultimate frisbee*, Jyli, Jyväskylä, Finland.
- 2000-2005**, *Basketball*, BNL Basketball team, New York, USA.
- 2015-current**, *Basketball*, JyNMKY, Jyväskylä, Finland.
- , *Running*, *Swimming*, *Cross country ski*.