

# HIDEKI TANIMURA

Institut d'Astrophysique Spatiale, Universite Paris Saclay, Bat 120 - 121, 91440 Bures-sur-Yvette, France

Email: [hideki.tanimura@ias.u-psud.fr](mailto:hideki.tanimura@ias.u-psud.fr)

## CURRENT POSITION

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**Institut d'Astrophysique Spatiale, France**

**Postdoctoral positions** in ByoPiC project

(ByoPiC: The Baryon Picture of the Cosmos, <https://byopic.eu/>)

*2017 - present*

## EDUCATION

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- **Ph.D. in Astronomy from University of British Columbia, Canada** *2013 - 2017*  
– Dissertation:  
"Probing the Large-Scale Structure of the Universe with the Sunyaev-Zel'dovich Effect"  
(<https://open.library.ubc.ca/cIRcle/collections/ubctheses/24/items/1.0355885>)
- M.Sc. in Astronomy from University of British Columbia, Canada *2011 - 2013*  
– Dissertation: "10 GHz sky survey to probe inflation with CMB polarization"
- M.Sc. in Physics from Kyoto University, Japan *2002 - 2004*  
– Dissertation: "The performance of the Stereoscopic System of the CANGAROO-III Telescopes"
- B.Sc. in Physics from Kyoto University, Japan *1997 - 2001*  
– Dissertation: "The Test of CPT Symmetry in the Decays of Pion"

## SUMMARY OF PUBLICATIONS AND PRESENTATIONS

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- Total citations: 670 and H-index: 13 (by ADS as of 16 Oct 2021)
- 21 refereed papers, including 7 papers from the CANGAROO collaborations
- 20 talks/seminars and 3 posters

## HONORS AND AWARDS

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- Faculty of Science PhD Tuition Award, UBC *2011 - 2017*
- International Tuition Award, UBC *2011 - 2017*
- Japan JASSO Scholarship *2002 - 2004*
- Japan JASSO Scholarship *1997 - 2001*

## WORK EXPERIENCE

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- Research Assistant at the University of British Columbia *2011 - 2017*  
– Development of statistical tool to study the large-scale structure of the Universe, supervised by Dr. Ludovic Van Waerbeke and Dr. Gary Hinshaw  
– Design of future ground-based observations of the CMB Polarization to probe Inflation, supervised by Dr. Gary Hinshaw
- Teaching Assistant at the University of British Columbia *2011 - 2017*
- Teaching Assistant at Kyoto University *2004 - 2005*
- Construction of DAQ (Data acquisition system) in the CANGAROO-III imaging atmospheric Cherenkov Telescope in Woomera, South Australia *2003*

- Observations of supernova remnants and pulsars with the CANGAROO-II imaging atmospheric Cherenkov Telescope in Woomera, South Australia *2001,2002,2003*

## MANAGEMENT

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- Organization of cosmology journal club at IAS laboratory at Orsay France *2019 - 2021*
- Local Organizing Committee of Euclid French meeting at Orsay, France *2019*
- Local Organizing Committee of ByoPiC meeting at Hossegor, France *2019*
- Local Organizing Committee of ByoPiC meeting at Malta *2018*
- Chairperson in the "Cosmic Rays" session at the Student-Committee for Astronomy and Astrophysics, Tokyo, Japan, *2004*

## TEACHING AND SUPERVISION

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- Supervision of a master student at Universite Paris-Saclay in France for his research *2021*
- Teaching Assistant of "Classical Electrodynamics" course, graduate-level at University of British Columbia (UBC), Canada *2017*
- Teaching Assistant of "Theory of Measurement" course, graduate-level at UBC *2016*
- Teaching Assistant of "Mathematical physics" course, undergraduate 3rd-year level at UBC *2015*
- Teaching Assistant of "Electronics Laboratory" course, undergraduate 3rd-year level at UBC *2014*
- Teaching Assistant of "Astronomy laboratory" course, undergraduate 1st-year level at UBC *2011-2013*
- Teaching Assistant of "Physics experiment" course, undergraduate 1st-year level at UBC *2011-2017*
- Supervision of 4th-year undergraduate students at Kyoto University in Japan for their dissertations in the Cosmic-Ray lab *2004-2005*

## MEDIA AND OUTREACH

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- SCIENCE ET AVENIR (interviewed by editor) *2021*
- CNRS press release (<https://www.cnrs.fr/en/has-hidden-matter-universe-been-discovered>) *2020*
- Highlight in Nature Astronomy (<https://www.nature.com/articles/s41550-020-01279-8>) *2020*
- SCIENCE ET VIE (interviewed by editor) (<https://www.science-et-vie.com/ciel-et-espace/cosmologie-on-a-retrouve-la-matiere-cachee-de-l-univers-60483>) *2020*
- Universite Paris-Saclay press (<https://www.universite-paris-saclay.fr/actualites/la-tete-dans-les-etoiles-la-recherche-de-la-matiere-manquante>) *2019*
- SCIENCE ET VIE (<https://www.science-et-vie.com/ciel-et-espace/univers-on-a-enfin-trouve-la-matiere-manquante-47328>) *2019*
- Presentation to secondary school students about "postdoc life" at IAS (Orsay, France) *2018*
- New Scientist (interviewed by editor) (<https://www.newscientist.com/article/2149742-half-the-universes-missing-matter-has-just-been-finally-found/>) *2017*
- CBC News (interviewed by editor) (<https://www.cbc.ca/news/technology/universe-missing-baryons-1.4206311>) *2017*
- WIRED (interviewed by editor) (<https://wired.jp/2017/10/27/dark-baryon/>) *2017*

## NON-ACADEMIC WORK EXPERIENCE AND ACHIEVEMENTS

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- Employee at IBM Japan, Tokyo, Japan *2005 - 2011*
  - Position: IT specialist, sub-leader of System Monitoring team at IBM Tivoli Software Support
  - Task: Technical support of the software onsite/remote to clients such as Ministries of the Japanese government, Megabanks, Motor Corporations etc. Management of the team operation.
- "The Best of IBM", awarded by Vice President of IBM Japan *2007*
- "Hero and Heroine award", awarded by Head Director of IBM Japan *2006, 2010*

## CERTIFICATION

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- Oracle Database 10g Administrator Certified Associate *2008*
- Microsoft MCP (Microsoft Certified Professional) *2005*
- Sun Certified Programmer for the Java2 *2005*
- Cisco CCNA (Cisco Certified Network Associate) *2004*
- Linux Professional Institute Certified Level1 (LPIC - Level1) *2003*
- Japan IT Engineers Examination *2003*