

Ponmani HARIHARAN

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Mudichur, Chennai.
PIN 600048

Who am I?

Conscientious
Extravert
Hodophile
Openness
Physicist
Researcher

Skills and Practices

Analytics	★★★★☆
Innovative	★★★★★
Teamwork	★★★★☆
Communication	★★★★★

Interested in

Aeronautics	Hiking
Astronomy	Reading
Electronics	Swimming
Geography	Teaching

Fluency

English	★★★★★
Japanese	★★☆☆☆
Tamil	★★★★☆
Keynote	★★★★★
Python	★★☆☆☆
Latex	★★★★☆

Professional Summary

Experienced Physics Educator with a deep understanding of the IGCSE and As and A level curricula. Proficient in delivering comprehensive physics instruction tailored to these specific programs. Former Research Scholar at Muroran Institute of Technology, Japan, specializing in condensed matter physics and superconductivity. Demonstrated problem-solving skills with a versatile teaching approach. Natural affinity for teaching, coupled with effective communication skills. Known for honesty and dedication. Adaptable and committed to professional growth. Proficient in curriculum development and computational tools. Passionate about simplifying complex problems for students.

Experience

- Budding Minds International School, Chennai.
As & A level Physics and Math Faculty. (2021 - present)
- Twenty first Century Education, India. (Part time).
NEET Physics Tutor. (2022 - present)
11 & 12 CBSE Classes.
- Muroran Institute of Technology, Japan
Research Scholar. (2017 - 2021)
Non-Centrosymmetric superconductors.
Strongly correlated Electron Systems lab.
- Tokyo University, Japan
Internship, HPLT and MPMS work. (2019)

Education

- Bharathidasan University, Trichy.
Master of Science, Physics. (2017 - 2021)
- Bishop Heber College, Trichy.
Bachelor of Science, Physics. (2017 - 2021)

Certificate Courses

- Cambridge International Diploma of Teaching and Learning (CIDTL) (Pursuing).
- Cambridge International Fundamentals of Teaching and Learning (CIFTL). 2021.
- JASSO Research ethics. 2019.
- Licensed from Tokyo University, Japan for research level Low Temperature and High Pressure Equipment operations and Handling. 2019.

Scholarships

- JASSO, Japan Student Services Organization scholarship, Japan.
- Muroran Institute of Technology research scholarship. Japan
- INSPIRE, Ministry of Science and Technology. India

[P.T.O]

Publications

1. High Temperature and High Pressure Synthesis and Magnetic Properties of Arsenic-Based Filled Skutterudite Compounds.
C.Sekine, T. Osanai, **Hariharan Ponmani**, A. Phuangyod, Y. Kawamura, H. Gotou. <https://doi.org/10.4028/www.scientific.net/SSP.289.85>
2. High-pressure synthesis and superconductivity of Mo compounds without spatial inversion symmetry II.
C. Sekine, K. Nakai, J. Saravanan, **Hariharan Ponmani**, Y. Kawamura, H. Goto, A. Sonachalam.
https://doi.org/10.11316/jpsgaiyo.73.2.0_1560
3. Effect of chemical substitution on structural, magnetic and magnetocaloric properties of $Mn_{1-x}Sm_xCoGe$ alloys.
U. Devarajan, P. Sivaprakash, C. Venkateswaran, **Hariharan Ponmani**, Yukihiro Kawamura, Chihiro Sekine.
<https://doi.org/10.1016/j.jmmm.2021.167912>
4. Magnetic Properties of Layered Rare Earth Zinc Phosphide $HoZn_3P_3$ Prepared Under High Pressure.
Janagan Saravanan, **Hariharan Ponmani**, Yuya Sato, Jun-ichi Hayashi, Yukihiro Kawamura, Hirotada Gotou, Chihiro Sekine.
<https://doi.org/10.7566/JPSJ.90.094701x>
5. Enhancement of superconductivity, upper critical field, critical current density and activation energy of $MoNiP$ superconductor under extreme conditions. (Manuscript under preparation). **Hariharan Ponmani**, G. Kalaiselvan, S. Janagan, K. Matsuura, J. Hayashi, Y. Uwatoko, Y. Kawamura, C. Sekine.

Presentations

1. Superconductivity of non-centrosymmetric $MoNiP$ prepared under high pressure. 2021, Austria Centre, Vienna, Austria.
2. Magnetic field and pressure effects on superconductivity of $MoNiP$, 55th Annual Submit optical Science January 2020, Hokkaido.
3. Non-centrosymmetric $MoNiP$, Rare Earth Workshop Submit 2020, Muroran Institute of Technology, Japan.
4. "English Discourse Campsite on Global Environmental Affairs to the Japanese and International Students", 24th National College of Technology Symposium, Oyama.

Social Profile



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"I would rather have questions that can't be answered than answers that can't be questioned. "

Richard Feynman