

Contact



Top Skills

Scientific Research
Regenerative Design
Systems Thinking

Languages

English
Spanish
Marathi
Hindi

Nayana Shah

Conscious, Compassionate, and Creative Living || Theoretical Quantum Physicist || Founder | Facilitator | Activist | Public Speaker
|| Let us co-create the world we envision!

Cincinnati, Ohio, United States

Summary

Dr. Nayana Shah is an international scientist –a theoretical quantum physicist– dedicated to living a conscious, compassionate and creative life illuminated by a constant inquiry of truth. Using the quantum laws of physics, her research seeks to understand how different phases and properties of matter emerge in a collection of many particles interacting with each other under different conditions. That quest is also to identify the universalities within the diversity.

Experience

Parliament of the World's Religions

Member Board of Trustees

2024 - Present (less than a year)

The vision of the Parliament of the World's Religions is of a just, peaceful, and sustainable world in which:

- Religious and spiritual communities live in harmony and contribute to a better world from their riches of wisdom and compassion.
- Religious and cultural fears and hatreds are replaced with understanding and respect. People everywhere come to know and care for their neighbors.
- The richness of human and religious diversity is woven into the fabric of communal, civil, societal, and global life.
- The world's most powerful and influential institutions move beyond narrow self-interest to realize common good.
- The Earth and all life are cherished, protected, healed, and restored. All people commit to living out their highest values and aspirations.

Cincinnati Permaculture Institute

Member Board of Directors | Chair of Education Committee

December 2023 - Present (11 months)

Cincinnati, Ohio, United States

~Educating our region about Regenerative and Resilient Living to build a Perennially Mutualistic Culture~

CPI's Mission:

To educate individuals and organizations on Permaculture in order to catalyze a resilient culture in the Cincinnati Bioregion. Leveraging symbiotic opportunities for practical regenerative results.

CPI's Vision:

Our diverse community builds its own resilient future; one plant, one person, one community at a time.

Washington University in St. Louis

Research Scientist

2009 - Present (15 years)

Affiliated (Honorary) Physics Faculty Member. Declined the regular tenure-track professor offer due to dual career reasons.

Design and perform research in theoretical quantum condensed matter theory with a focus on strongly correlated, mesoscopic and nano-scale quantum matter/systems. Often involves (international) collaborations and mentoring of junior researchers.

CinciNNI

Co-founder | Co-Organizer | Co-Facilitator

2010 - Present (14 years)

Cincinnati, Ohio, United States

CinciNNI: Cincinnati Near Neighbor Interactions.

It is a quantum condensed matter theory forum structured around one day events typically held few times a year, involving researchers as well their graduate students and postdocs from tri-state universities. Regularly participating universities include Indiana University, Indiana Purdue University at Indianapolis, Ohio State University, Ohio University, Purdue University, University of Cincinnati, and University of Kentucky.

Women in Physics and Beyond

Founder | Organizer | Facilitator

2010 - Present (14 years)

The group was awarded a 'Women in Physics Grant' for the year 2016-2017 from the American Physical Society's Committee on the Status of Women in Physics.

Originally the group started as an in-person group. On the International Women's Day, March 8, 2024 the corresponding LinkedIn Group was opened up to the larger community going beyond the original members.

Heärt Montessori School

Co-founder and Advisory Board Member

2017 - December 2023 (6 years)

Cincinnati, USA

Experimental/Model School

University of Cincinnati

Physics Faculty Member

2009 - 2017 (8 years)

Cincinnati, USA

As a physics professor, led a research program in theoretical quantum condensed matter physics. Supervised and mentored graduate students and postdoctoral researchers. Designed and taught graduate level core courses as well as advanced courses (e.g. advanced statistical physics, many body theory). Also taught large service courses in introductory physics to undergraduate students outside the physics department.

University of Illinois at Urbana-Champaign

Postdoctoral Research Associate in Condensed Matter Physics

2006 - 2009 (3 years)

Urbana-Champaign, Illinois Area

University of Cologne

Postdoctoral Fellow at Institute for Theoretical Physics

2004 - 2006 (2 years)

Cologne, Germany

ETH Zurich

Postdoctoral Researcher at Institute for Theoretical Physics

2003 - 2004 (1 year)

Zürich Area, Switzerland

Joint position with PSI

Paul Scherrer Institut PSI

Postdoctoral Research Fellow in Condensed Matter Theory

2003 - 2004 (1 year)

Zürich Area, Switzerland

Joint position with ETH

Education

Rutgers University

Doctor of Philosophy - PhD, Theoretical Physics · (1997 - 2003)

Indian Institute of Technology, Bombay

Master of Science (MSc), Physics · (1994 - 1996)

Fergusson College

Bachelor of Science (BSc) from University of Pune, Physics (principal subject),

Mathematics and Statistics (subsidiary subjects) · (1991 - 1994)