TEXAS STATE VITA

I. Academic/Professional Background

A. Name and Title

Name: Dr. Dip N Mahato Title: Lecturer

B. Educational Background

Degree	*Year*	*University*	*Major*	*Thesis/Dissertation*
PHD	2009	University at Albany, SUNY	Physics	
MS	2006	University at Albany, SUNY	Physics	

C. University Experience

Position	*University*	*Comments*	*Dates*
Lecturer, Physics	Texas State University. San Marcos, TX, United States		August 19, 2019 - Present
Associate Professor (Adjunct), Physics	Austin Community College. Austin, TX, United States		May 13, 2019 - Present
Lecturer, TA, RA, Physics	State University of New York. Albany, NY, United States		January 18, 2005 - January 5, 2009
Assistant Professor, Physics	Kathmandu University. Dhulikhel, Nepal		January 1, 2000 - August 19, 2004
Lecturer, Physics	Kathmandu University. Dhulikhel, Nepal		February 22, 1995 - January 1, 2000

D. Relevant Professional Experience

Position	*Entity*	*Comments*	*Dates*
Senior Engineer	Photo Process, Samsung Austin Semiconductor, Austin, TX, United States		March 20, 2017 - August 16, 2019
PTD Staff Engineer	Photo-lithography, Intel		April 6, 2009 - March 17, 2017

Position	*Entity*	*Comments*	*Dates*
	Corporation, Hillsboro, OR, United States		

II. TEACHING

B. Courses Taught:

Texas State University:

MSEC 7350 - FRONTIERS NANOELEC

MSEC 7360 - NANOMATS PROC

PHYS 1115 - GEN PHYS I LAB

PHYS 1125 - GENERAL PHYSICS II LAB

PHYS 1310 - ELEMENT PHYS

PHYS 1315 - GENERAL PHYSICS I

PHYS 1320 - ELEMENT PHYS

PHYS 1325 - GENERAL PHYSICS II

PHYS 1335 - GEN PHYS I FOR LIFE SCIENCES

PHYS 1345 - GEN PHYS II FOR LIFE SCIENCES

PHYS 1430 - MECHANICS

PHYS 3416 - APPL ELECTRONICS

PHYS 5322 - SEMICONDUCTOR DEVICE MICROFAB

PHYS 5327 - SEMICONDUCTOR DEVICE PHYSICS

C. Directed Student Learning (i.e. theses, dissertations, exit committees, etc.):

Member, Master's Thesis, "Multiple students with different titles (details in attached file)", Status: In Progress. (2023 - Present). Physics/MSEC, TXST.
Student(s):
Professional Activities_Mahato-2.pdf
Additional Comments: Details in attached file

Member, Master's Thesis, "Frequency and Damping Noise of Atomic Force Microscopy Cantilevers with Optomechanically Modified Quality Factor at Low Temperature", Status: Completed. (January 2022 - July 2023). Physics, TXST.
Student(s): Noah Austin-Bingamon, Graduate, MS.

D. Courses Prepared and Curriculum Development:

PHYS 1335, First Time Course Preparation, TXST. Taught: May 2022 - Present.

PHYS 1345, First Time Course Preparation, TXST. Taught: May 2022 - Present.

G. Teaching Professional Development Activities Attended

Institute, "STEM Summer Institute," STEM Community Texas State University, San Marcos, TX, United States. (May 18, 2023 - May 27, 2023).

Institute, "STEM Summer Institute," STEM Community Texas State University, San Marcos, TX, United States. (May 18, 2022 - May 27, 2022).

Workshop, "2020 Fall New Faculty Workshop," AAPT, Online, United States. (October 15, 2020 - October 17, 2020).

Workshop, "Summer 2020 STEM Teaching Workshop," Texas State University, Online, United States. (May 18, 2020 - May 22, 2020).

Conference Attendance, "ILA Conference 2019," University of Colorado, Boulder, CO, United States. (October 19, 2019 - October 21, 2019).

Additional Comments: Professional development related to LA-based physics classes.

III. SCHOLARLY/CREATIVE

B. Works Not in Print:

C. Scholarly / Creative Grants and Contracts:

2. Submitted, but not Funded, External Grants and Contracts:

Miyahara, Yoichi (Principal), Satchell, Nathan David (Co-Principal), Holtz, Mark W (Co-Principal), Kim, Namwon (Co-Principal), Martin, Benjamin (Co-Principal), Chen, Yihong (Supporting), Theodoropoulou, Nikoleta (Supporting), Geerts, Wilhelmus J (Supporting), Piner, Edwin L (Supporting),

Haque, Ariful (Supporting), Droopad, Ravindranath (Supporting), Mahato, Dip Narayan (Supporting), Smith, Casey Eben (Supporting). MRI: Acquisition of state-of-the-art lithography system for micro/nanometer scale device fabrication in research and education, National Science Foundation, Federal, $569,780.00. (Submitted: November 14, 2023). Grant.

Haque, Ariful, Droopad, Ravindranath, Holtz, Mark W, Piner, Edwin L, Geerts, Wilhelmus J, Chen, Yihong, Hudnall, Todd W, Wistey, Mark A, Miyahara, Yoichi, Smith, Casey Eben, Mahato, Dip Narayan, Rastogi, Shiva Kumar, Kim, Namwon. Acquisition of a state-of-the-art Photoluminescence Spectrometer for Materials Characterization in Research and Education, Department of Defense, Federal, $434,519.00. (Submitted: September 2023). Grant.

Haque, Ariful (Principal), Droopad, Ravi (Co-Principal), Geerts, Wilhelmus (Co-Principal), Holtz, Mark (Co-Principal), Hudnall, Todd (Co-Principal), Kim, Namwon (Co-Principal), Chen, Maggie (Co-Principal), Miyahara, Yoichi (Co-Principal), Wistey, Mark (Co-Principal), Rastogi, Shiva (Co-Principal), Mahato, Dip (Co-Principal). MRI: Acquisition of a state-of-the-art photoluminescence spectrometer for research and education, National Science Foundation, Federal, $451,881.00. (Submitted: February 2023). Grant.

Miyahara, Yoichi (Principal), Smith, Casey Eben (Co-Principal), Geerts, Wilhelmus J (Co-Principal), Holtz, Mark W (Co-Principal), Theodoropoulou, Nikoleta (Co-Principal), Chen, Yihong (Co-Principal), Kim, Namwon (Co-Principal), Martin, Benjamin (Co-Principal), Mahato, Dip Narayan (Co-Principal), Haque, Ariful. MRI: Acquisition of state-of-the-art lithography system for micro/nanometer scale device fabrication in research and education, National Science Foundation, Federal, $569,780.00. (Submitted: February 21, 2023). Grant.

IV. SERVICE

A. Institutional

1. University:

Advisor, Nepalese Student Association at TXST. (October 2023 - Present).

2. College:

Member, STEM Communities Project TEAM. (January 1, 2021 - Present).

Additional Comments: STEM Communities Project Team:
- Actively participated in the Physics/Biology "Department Instructional Assessment (DIA)" discussions through departmental and inter-departmental meetings.

Member, Undergraduate Program Committee. (January 1, 2021 - Present).

Additional Comments: Undergraduate Program Committee:
- Actively participated in the undergraduate program committee meetings organized by Dr. Donnelly.
- We discussed various aspects of making our physics undergraduate program more attractive for students by adding new courses and developing new schemes for them to find physics more useful in the job market.

3. Department/School:

Member, Graduate Thesis Committee. (January 2023 - Present).
Department and University Services_Mahato-1.pdf
Additional Comments: Please see attached pdf file for a list of departmental and university level services that I am involved in.

Organizer, Member, Mentor, Coordinator. (2022 - Present).
Departmental Service-1.pdf
Additional Comments: Bulleted list is included in the attached pdf file.

Organizer, Physics Colloquium Series. (January 1, 2021 - Present).

Additional Comments: Physics Colloquium Series:
- Coordinated with the Chair (Dr. Mark Holtz) and admins to organize the colloquia in our department including arrangements for refreshments, students' recruitment, travel expense reimbursements, announcements, publicizing within and outside of the department.
- Coordinated with guest speakers from various institutions in different areas of physics research to align the interest of our faculty, and organized the colloquia flawlessly.

Participant, LA-program Activities. (January 1, 2021 - Present).

Additional Comments: LA-program Activities:
- Attended all meetings, workshops and picnic/celebrations.

D. Organization Memberships:

Nepalese Student Association at TXST (NSA). (September 2023 - Present).

Additional Comments: Advisor

Sigma Xi. (January 2010 - Present).

The American Association of Physicists in Medicince (AAPM). (January 2010 - Present).

American Physical Society (APS). (January 2006 - Present).

American Association of Physics Teachers (AAPT). (January 2005 - Present).

Nepal Physical Society (NPS). (January 1995 - Present).