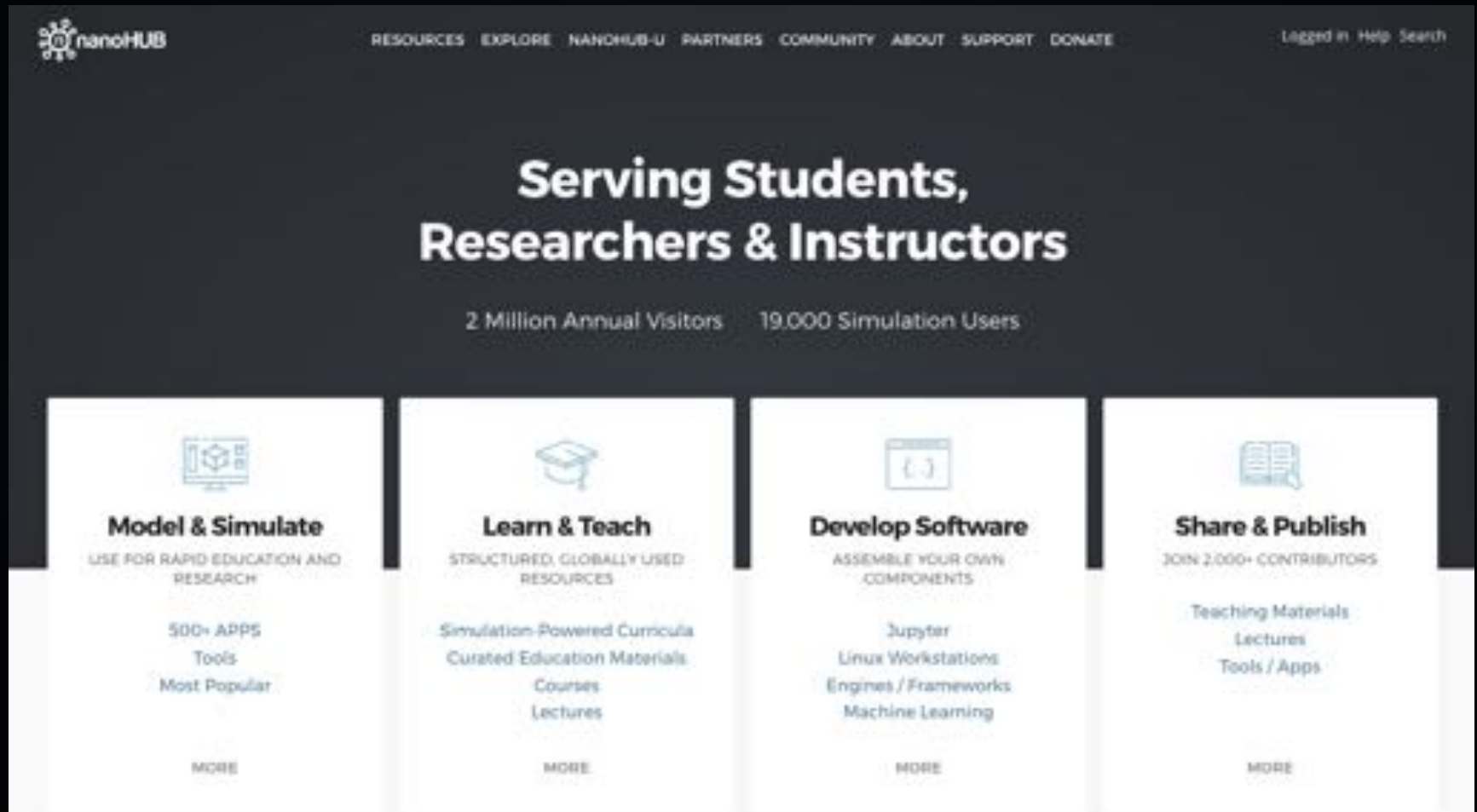


Introduction to nanoHUB



The screenshot shows the nanoHUB website homepage. At the top left is the nanoHUB logo. The top navigation bar includes links for RESOURCES, EXPLORE, NANOHUB-U, PARTNERS, COMMUNITY, ABOUT, SUPPORT, and DONATE. On the top right, it says 'Logged in Help Search'. The main heading is 'Serving Students, Researchers & Instructors'. Below this, it states '2 Million Annual Visitors' and '19,000 Simulation Users'. The page features four main content blocks: 'Model & Simulate' (with an icon of a computer monitor and a gear), 'Learn & Teach' (with a graduation cap icon), 'Develop Software' (with a code editor icon), and 'Share & Publish' (with a document icon). Each block lists key features and includes a 'MORE' link at the bottom.

Model & Simulate
USE FOR RAPID EDUCATION AND RESEARCH
500+ APPS
Tools
Most Popular
MORE

Learn & Teach
STRUCTURED, GLOBALLY USED RESOURCES
Simulation-Powered Curricula
Curated Education Materials
Courses
Lectures
MORE

Develop Software
ASSEMBLE YOUR OWN COMPONENTS
Jupyter
Linux Workstations
Engines / Frameworks
Machine Learning
MORE

Share & Publish
JOIN 2,000+ CONTRIBUTORS
Teaching Materials
Lectures
Tools / Apps
MORE

Tanya Faltens, PhD
Network for Computational Nanotechnology
Purdue University



A publishing platform

A scientific community

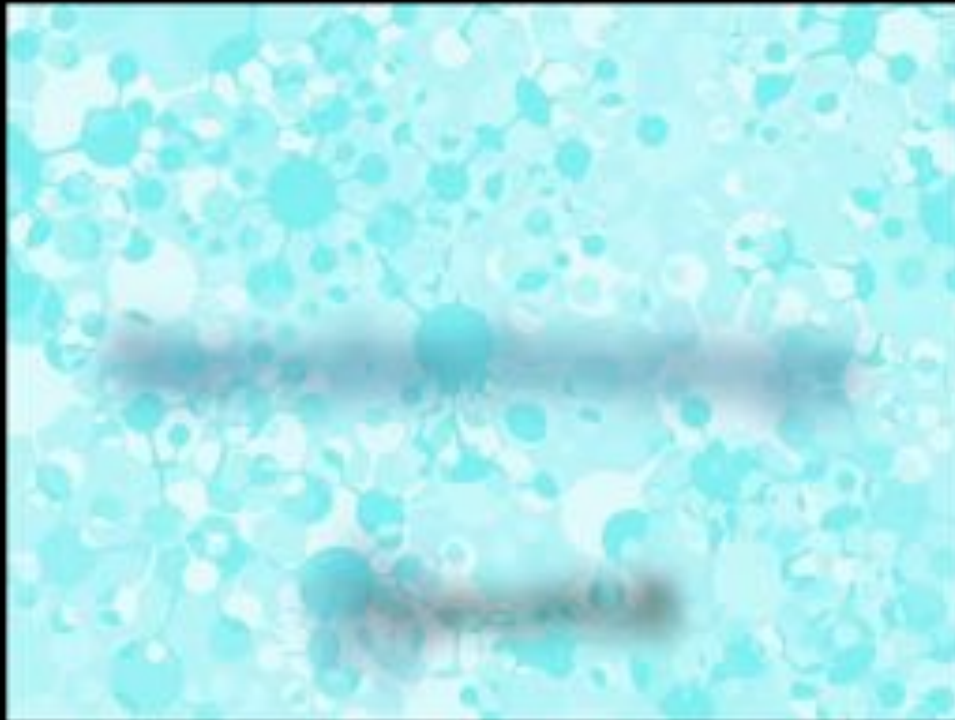
What is nanoHUB?

An open-access
cyber infrastructure

A simulation toolbox
for research

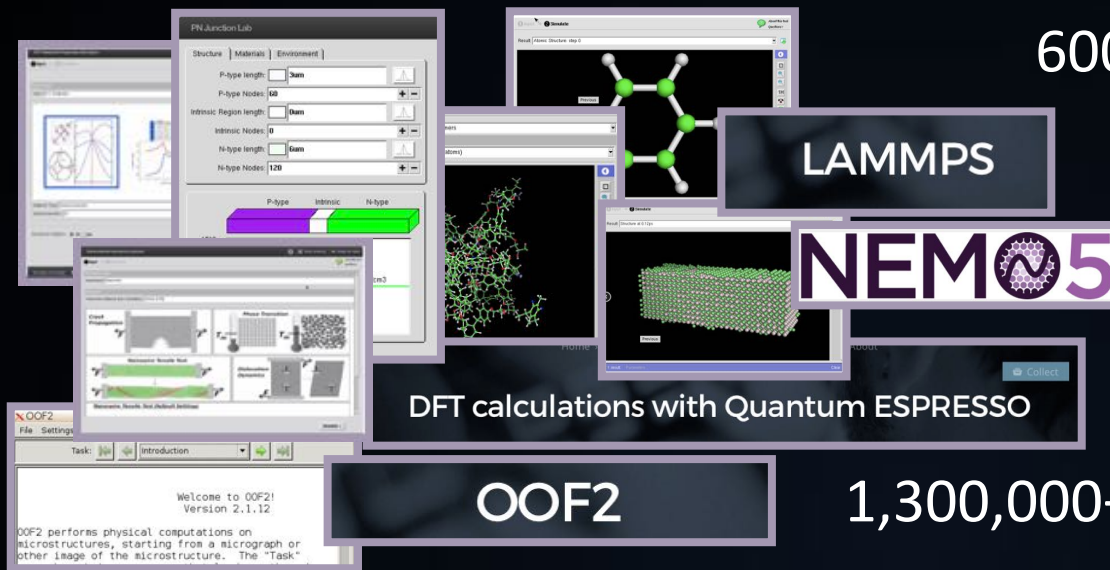
A library of free
educational resources





<https://www.dropbox.com/s/qf9no2aazvbyrne/nanoHUBOverviewBIO2020.mp4?dl=0>





600+ simulation tools

1,800+ contributors

~18,000+ annual simulation users

1,300,000+ simulations per year

2 million visitors per year

www.nanohub.org/usage



nanoHUB Usage



nanoHUB Educational Resources Created by Undergraduates

To address the current challenge of how to
deliver hands-on experiences in a time of
online teaching



Summer 2020 NCN URE/UCEE Jupyter Notebooks for Education and Research

- Illustrative Mathematical Concepts
- Data Analysis of Normal Data Sets in Engineering
- ECG Data Analysis Using Machine Learning
- Matlab Data Analysis Using Jupyter Notebooks
- Interactive Learning Tools for Scientific Computing and Data Analysis Using R



Time to explore nanoHUB!

Tanya Faltens
tfaltens@purdue.edu

National Science Foundation
EEC 1227110

Any opinions, findings, and conclusions or recommendations expressed in this material are those of the authors and do not necessarily reflect the views of the National Science Foundation.

