

# Hoang Long Nguyen

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## Education

<b>Nanyang Technological University &amp; University of Groningen</b> , Physical Chemistry	Singapore 2019 – 2024
<ul style="list-style-type: none"><li>• Double Degree.</li><li>• Thesis title: Excitonic Energy Transfer Processes in Photosynthetic Systems studied with Two-dimensional Electronic Spectroscopy.</li></ul>	
<b>Nanyang Technological University</b> , Applied Physics	Singapore 2015 – 2019
<ul style="list-style-type: none"><li>• Honours (Highest Distinction).</li><li>• Minor in Nanotechnology.</li></ul>	

## Experience

<b>Nanyang Technological University</b> , Research Fellow	Singapore 2024 – present 2 years
<b>Nanyang Technological University</b> , Project Officer	Singapore 2019 – 2019 1 year

## Publications

### Zur Elektrodynamik bewegter Körper

It concerned an interpretation of the Michelson–Morley experiment and the properties of light and time. Special relativity incorporates the principle that the speed of light is the same for all inertial observers regardless of the state of motion of the source.

Albert Einstein

[en.wikisource.org/wiki/Translation:On\\_the\\_Electrodynamics\\_of\\_Moving\\_Bodies](https://en.wikisource.org/wiki/Translation:On_the_Electrodynamics_of_Moving_Bodies)

### Über einen die Erzeugung und Verwandlung des Lichtes betreffenden heuristischen Gesichtspunkt

In the second paper, he applied the quantum theory to light to explain the photoelectric effect. In particular, he used the idea of light quanta (photons) to explain experimental results, but stressed the importance of the experimental results. The importance of his work on the photoelectric effect earned him the Nobel Prize in Physics in 1921.

Albert Einstein

[de.wikisource.org/wiki/%C3%9Cber\\_einen\\_die\\_Erzeugung\\_und\\_Verwandlung\\_des\\_Lichtes\\_betreffenden\\_heuristischen\\_Gesichtspunkt](https://de.wikisource.org/wiki/%C3%9Cber_einen_die_Erzeugung_und_Verwandlung_des_Lichtes_betreffenden_heuristischen_Gesichtspunkt)

### Die Grundlage der allgemeinen Relativitätstheorie

The publication of the theory of general relativity made him internationally famous. He was professor of physics at the universities of Zurich (1909–1911) and Prague (1911–1912), before he returned to ETH Zurich (1912–1914).

Albert Einstein

[de.wikisource.org/wiki/Die\\_Grundlage\\_der\\_allgemeinen\\_Relativit%C3%A4tstheorie](https://de.wikisource.org/wiki/Die_Grundlage_der_allgemeinen_Relativit%C3%A4tstheorie)

## Skills

Physics

## Languages

German

Native speaker

English  
Fluent

Interests

Physics

Certificates

Machine Learning	Jan 2018
Quantum Computing	Jan 2018
Quantum Information	Jan 2018

Projects

Quantum Computing	Jan 2018 – Jan 2018
Quantum computing is the use of quantum-mechanical phenomena such as superposition and entanglement to perform computation. Computers that perform quantum computations are known as quantum computers.	
<ul style="list-style-type: none"><li>Quantum Teleportation</li><li>Quantum Cryptography</li></ul>	

References

Professor John Doe

Professor Jane Smith