

Education

University of Victoria

Ph.D. in Electrical Computer Engineering (GPA:3.9/4.0)

May 2020 – Present

Advisor: Dr. Lin Cai

Northwestern Polytechnical University

M.Sc. in Computer technology (GPA: 3.82/4.0)

Aug 2017 – May 2020

Advisor: Dr. Shining Li

B.Eng. in Software Engineering

Aug 2012 – May 2016

Research Experience

Computer network

Network Optimization, Protocol Design and Performance Analysis

6G network architecture

Delay Guaranteed networking, Intelligent Forwarding, and Routing Protocol Architecture

Wireless Avionics Intra-Communications

Sub-6G channel modeling, OFDMA, 5G New Radio

Work Experience

Computing Research Institute of Aviation Industry Corporation of China

Dec. 2018 – Dec. 2019

Researcher

Xi'an, China

- Sub-6G (4 200 MHz - 4 400 MHz)channel modeling
- Wireless communication system design based on Universal Software Radio Peripheral (USRP)
- Excellence Research Intern Award Recipient

New Protocol Architecture Design for 6G

Dec. 2020 – Jul. 2023

Ph.D student

Victoria, Canada

- Self-Evolving and Transformative Protocol Architecture for 6G design
- Updatable eXpress Transport Protocol design
- Delay-Guaranteed Routing Protocol design

Publications

- **P. Yang**, T. Chang, L. Cai, "DDR: A Deadline-Driven Routing Protocol for Delay Guaranteed Service" IEEE International Conference on Computer Communications (INFOCOM), Jan 15. 2024.
- **P. Yang**, L. Cai, T. Chang, "DGR: Delay-Guaranteed Routing Protocol" The 20th IEEE International Conference on Mobile Ad-Hoc and Smart Systems (MASS), July. 2023.
- X. Ren, L. Cai, **P. Yang**, and J. Ji, "Congestion-aware Delay-guaranteed Scheduling and Routing with Renewal Optimization," Computer Networks, June 2023.
- X. Fan , S. Li , W. Cui , **P. Yang**, G. Huang, "Mixed-Numerology Channel Division for Wireless Avionics Intracommunications", Wireless Communications and Mobile Computing, April. 2022
- **P. Yang**, L. Cai, Z. Huang, J. Pan, "ROMAM : An Intelligent Distributed Routing Protocol Architecture", USENIX Symposium on Networked Systems Design and Implementation (NSDI), 2025 (submitted)

Teaching experience

LAB Instructor for CSC 111

Jan 2024 - Apr 2024

TA, LAB Instructor and Marker for ECE 403/503

Sep 2021 - Apr 2023

Teaching Assistant in ECE 260

Sep 2022 - Dec 2022

Professional Activities

IEEE INFOCOM 2024 Vancouver

Tech Support for Sessions and Registration from May 20 to 23

May 2024

IEEE Victoria Section Workshop on Ubiquitous Intelligence

Poster Competition Workshop

Nov 2023

Explore University of Victoria

Organize the activities and introduce the laboratory research achievements.

Nov 2023

The 11th Multidisciplinary Symposium of Canadian Academy of Chinese Professors

Volunteered to assist in organizing the event

Jun 2023

Awards & Scholarships

UVic Graduate Fellowship

2023

For outstanding academic performance.

UVic Graduate Fellowship

2022

For outstanding academic performance.

UVic Graduate Fellowship

2021

For outstanding academic performance.

UVic Graduate Fellowship

2020

For outstanding academic performance.

NWPU Graduate Scholarship

2019

For outstanding academic performance during graduate study

Excellent Research Intern Achievement

2020

For the contribution to WAIC project

NWPU Graduate Scholarship

2018

For outstanding academic performance during graduate study

NWPU Graduate Scholarship

2017

For outstanding academic performance during graduate study

ACM-ICPC Second Prize of NWPU

2013

International Collegiate Programming Contest