

Te-Yuan (TY) Huang

Senior Manager, Streaming Algorithms

Netflix | [LinkedIn](#)

Summary

An engineering leader with a proven track record in advancing video streaming technologies and quality of experience at scale. Currently leading the Streaming Algorithm team at Netflix, specializing in adaptive bitrate (ABR) algorithms, joint optimization across CDN, encoding, and player systems, and driving operational efficiency. Recognized for contributions to networking research and active participation in the broader computer networking community.

Experience

Netflix

Senior Engineering Manager, Streaming Algorithms

2014 – Present

- Lead the Streaming Algorithm team to enhance Netflix's Quality of Experience through advanced ABR algorithms.
- Architect and implement joint optimizations across OpenConnect (CDN), video encoding, and Netflix players, improving operational efficiency and system interactions.
- Develop and deploy tooling for video delivery pipeline analysis and optimization.
- Collaborate with cross-functional teams to drive innovation in video streaming.
- Serve as a TPC member for major networking conferences and as an active member of the IRTF Internet Research Task Force.

Education

Degree	Field	Institution	Year
PhD	Computer Science	Stanford University	2008 – 2014
MS	Electrical Engineering	National Taiwan University	2006 – 2008
BS	Computer Science	National Chiao Tung University	2002 – 2006

Selected Publications

- **A Global Perspective on the Past, Present, and Future of Video Streaming over Starlink**, ACM SIGMETRICS, May 2025
 - **Sammy: Smoothing Video Traffic to Be a Friendly Internet Neighbor**, ACM SIGCOMM, July 2023
 - **Unbiased Experiments in Congested Networks**, ACM Internet Measurement Conference, October 2021
 - **Towards Perceptually Optimized Adaptive Video Streaming—A Realistic Quality of Experience Database**, IEEE Transactions on Image Processing, April 2021
 - **Buffer Sizing and Video QoE Measurements at Netflix**, Workshop on Buffer Sizing, December 2019
 - **Helping Conference Attendees Better Understand Research Presentations**, Communications of the ACM, August 2016
 - **A Buffer-Based Approach to Rate Adaptation: Evidence from a Large Video Streaming Service**, ACM SIGCOMM, August 2014
 - **Confused, Timid, and Unstable: Picking a Video Streaming Rate is Hard**, ACM IMC, November 2012
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Honors & Community Service

- **IRTF Applied Networking Research Prize**, 2013 & 2022
- Technical Program Committee (TPC) member for **ACM SIGCOMM**, **Internet Measurement Conference (IMC)**, and **HotNets**
- Member, **Internet Research Steering Group**
- Listed in “**10 Women in Networking/Communications That You Should Watch**” by ACM/IEEE N2Women, 2016