



AI for 6G & What is the PhD ?

演講者：周伯衡博士 Dr. Chou, Po-Heng (Bone)

學經歷：美國 Virginia Tech 博士後訪問學者

中央研究院資創中心博士後研究員

國立臺灣大學電信工程學研究所博士

榮譽：台大優秀青年獎、台大斐陶斐榮譽會員

日期：2026.05.14 (Thu.)

時間：03:30PM-05:00PM

地點：中央大學鴻經館 M107 (Online Meeting)

線上演講連結：<https://meet.google.com/hpq-hhwo-xoe>



Abstract

未來的 6G 無線網路將在高度動態、高維度且硬體資源受限的環境中運行，傳統的最佳化和短期學習方法已不再適用。本次演講將探討向原生 AI 無線系統轉變的範式，該系統融合了數據驅動的智慧和推理能力。

在物理層，深度學習將取代迭代最佳化和明確通道估計，從而實現可擴展且節能的 RIS 輔助毫米波 MIMO 系統設計。在網路層，我們將引入雙思維世界模型 (DMWM)，將快速模式識別與緩慢的邏輯推理相結合，從而支持長期規劃、穩健泛化以及在不確定性下的適應性。

除了技術發展之外，本次演講還將探討攻讀博士學位的更深層意義。正如下一代無線系統從被動優化演進到預測智能一樣，攻讀博士學位的過程也代表著在複雜世界中駕馭不確定性、做出基於價值的決策並不斷重新定義自身方向的過程。

Biography

Dr. Chou, Po-Heng (Bone) received the Ph.D. degree from the Graduate Institute of Communication Engineering (GICE), National Taiwan University (NTU), Taipei, Taiwan, in 2020. He was a Postdoctoral Fellow hosted by Prof. Yu Tsao (IEEE Senior Member) at the Research Center for Information Technology Innovation (CITI), Academia Sinica, Taipei, Taiwan, from Sept. 2020 to Sept. 2024. He was invited to visit Virginia Tech (VT) Research Center (D.C. Area), Arlington, VA, USA as a Postdoctoral Visiting Fellow hosted by Prof. Walid Saad (IEEE Fellow) from Aug. 2023 to Feb. 2024. He was a Postdoctoral Fellow hosted by Prof. Li-Chun Wang (IEEE Fellow) at the Department of Electronics and Electrical Engineering, National Yang Ming Chiao Tung University (NYCU), Hsinchu, Taiwan, from Oct. to Dec. 2024. Since 2025, he has been a Postdoctoral Visiting Fellow at VT Institute for Advanced Computing (D.C. Area), Alexandria, VA, USA under the National Science and Technology Council (NSTC) Dragon Gate Program. His research focuses on AI for communications, deep learning, signal processing, wireless networks, and wireless communications. Dr. Chou's honors include the NTU Outstanding University Youth Award (2019), NTU Phi Tau Phi Honorary Membership (2019), Ph.D. Scholarship from the Chung Hwa Rotary Educational Foundation (2019–2020), and Distinguished Postdoctoral Scholar of Academia Sinica (2022–2023).