

# CV

Wai Ming Chan

Email: waiming.chan@ku.edu, Webpage: <http://www.waimingchan.com/>

## EDUCATION

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- **University of Kansas** Kansas  
*Doctor of Philosophy in Electrical Engineering* *2022 – Current*
- **City University of Hong Kong** Hong Kong SAR  
*Bachelor of Engineering (Honours) in Information Engineering* *2011 – 2014*

## EXPERIENCE

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- **Department of Electronic Engineering,** Hong Kong SAR  
• **City University of Hong Kong**  
*Research Assistant* *2015 – 2016*
  - **Millimeter Wave 3D beamforming System Simulator:** Conduct research projects on mmWave beamforming systems; Implement the research algorithm in C++ and MATLAB platforms; Publish conference paper from the simulation results.

## RESEARCH INTERESTS

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Digital signal processing, multiple-input and multiple-output (MIMO) communications, millimeter-wave MIMO channel estimation/precoder optimization, channel modeling, multirate and filterbank systems

## PUBLICATIONS

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- W. M. Chan, H. Ghauch, T. Kim, E. De Carvalho and G. Fodor, “Kolmogorov Model for Large Millimeter-Wave Antenna Arrays: Learning-based Beam-Alignment”, IEEE 53rd Asilomar Conf., Pacific Grove, CA, 2019.
- W. M. Chan, W. S. Tam, C. W. Kok and H. C. So, “Delay-Line Precoder based Analog-Digital MIMO Systems with MMSE Equalizer,” 2018 IEEE Global Conference on Signal and Information Processing (GlobalSIP), Anaheim, CA, USA, 2018.
- W. M. Chan, T. Kim, H. Ghauch, M. Bengtsson, “Subspace Estimation and Hybrid Precoding for Wideband Millimeter-Wave MIMO System”, IEEE 50th Asilomar Conf., Pacific Grove, CA, 2016.
- M. Dong, W. M. Chan, T. Kim, K. Liu, H. Huang, G. Wang, “Simulation Study on Millimeter Wave 3D Beamforming Systems in Urban Outdoor Multi-Cell Scenarios Using 3D Ray Tracing”, IEEE PIMRC 2015 Workshop, Hong Kong, September, 2015.

## PROGRAMMING SKILLS

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- **Languages:** C/C++, C#, Java, MATLAB, Python, SQL
- **Technologies:** AWS, Keras, Hadoop, Git, Bash