Originally trained as a solo pianist, Wai Sum studied with Philip Jenkins at the Royal Scottish Academy of Music and Drama (now the Royal Conservatoire of Scotland). She rapidly developed an affinity for accompaniment, was awarded the RSAMD's Piano Accompaniment Prize, the Dunbar Gerber Prize, The Bach Prize and the A Ramsay Calder Prize for Debussy Songs. After graduating with a Master of Music, she went on to hold the post of RSAMD Scholarship Accompanist.

She has participated in masterclasses with internationally renowned musicians such as Felicity Lott, Malcolm Martineau, Charles Rosen, Cristina Ortiz, Martino Tirimo, Dominique Merlet. With her piano duo partner Geneviene Wong, she has been invited to perform in concerts at the Dartington International Summer School and St. Martin's-in-the-Field, London.

Together with soprano Shuna Sendall, Wai Sum founded the chamber music group écoute which made its premiere performance at the 2000 Edinburgh Fringe Festival with music by John Harris, Matthew Brown and Clare Parker. From 2000-2005, écoute toured concert venues and festivals in Scotland and England specialising in repertoire for voice, flute and piano.

Wai Sum's career as an accompanist took a new turn after she became a pioneering student on Scottish Ballet's ground-breaking Pianist for Dance course. Graduating with distinction, she went on to work with major companies and schools such as Birmingham Royal Ballet, Elmhurst School for Dance, Matthew Bourne's New Adventures, and the Mark Morris Dance Group.

With a growing reputation of combining technical brilliance and improvisation with innovative choices of music, Wai Sum was appointed to the role of Musical Director for Midland Theatre Ballet and produced the music used for MTB's ballets between 2012 and 2018. As one of the new generation of specially trained dance musicians, Wai Sum continues to lead the way with her unique insight into movement and music

Wai Sum is the founder of Rhythm Circle, a music education initiative which uses a multi-sensory approach to teaching music notation.