James Huang

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Education

08/2023 – present	**New York University,** New York City, NY, USA	GPA: 4.0
04/2016 -- 06/2023	**International School of Beijing,** Shunyi District, Beijing, China.	QPA: 6.1
09/2011 -- 04/2016	**Zhongguancun No.4 Elementary School,** Haidian District, Beijing	
09/2007 -- 12/2009	**Early World Children's School**, Bellevue, WA, USA	

Honors and Awards

April 2023	High School Achievement Awards: Grade 12 Theory of Knowledge Award
June 2022	First Place Team Award, American Regions Mathematics League (ARML/IRML)
April 2022	Paper Accepted by *International Conference on Artificial Intelligence and Computer Science (*AICS2022*): A Novel Approach For Analysis and Understanding of Video Content*
June 2021	Grade 10 Mathematics Award
Dec 2020	Honorary Credential by HongDanDan Charity Center for helping the visually impaired
Dec 2019	The Principal's List

Activities

2021-2024	Software Design Engineer Intern, AI core team, Airdoc Corp. (HK: 02251.HK) Worked on deep learning models to predict diseases (diabetes, glaucoma, dementia) based on 3.7M patients' retinal imaging data
Fall 2023	Chief designer and implementor of two game projects for course CS101: SpaceExploration & Central Dogma of Life, using java, 3D, async programming, etc
2023-2024	Member, New York University Water Polo Club
2020-2023	Volunteer, HongDanDan Charity Center for the Visually Impaired Initiated a team of 5 to help blind kids enjoy literature books; leveraged & fine-tuned Microsoft Text-to-Speech tech by working closely with TTS team
2021-2021	Independent Researcher on Video Content Analysis Developed an innovative model that takes a video &keywords to produce a trailer; used Resnet, Attention LSTM, audio API; published results at AICS2022
2021-2021	Independent Researcher and Designer of Smart Cane Designed and implemented a smart cane for the blind, by detecting objects and warning with raspberry pi4B, Google CoCo model, cam, ultrasonic sensor
2021-2022	Independent Researcher on AI Model Comparison Coded and compared 2 AI models (Resnet50 and ViT) using Kaggle diabetic-retinopathy-detection dataset: ViT performs better (+10% auc) with blurry data
2019-2023	Team member, ISB Swimming Team
2019-2020	Drummer, Fly" Band @ ISB
2021-2022	High School Peer Mentor; ISB Robotics Club

Hobbies

Music: Drum, Piano, Flute

Sports: Ultimate Frisbee, Swimming, American Football, Ping-pong, Basketball, Badminton