

Munkhtulga Battogtokh

PhD joint research student (fully-funded) at Imperial & King's College
King's College London BSc (Hons) 1st
Sambrooke Exhibition Prize Winner

EDUCATION

PhD, Safe and Trusted AI — King's and Imperial College

OCT-2020 - PRESENT

Research Area: Natural Language Processing, Visualisation

1st BSc (Hons) Computer Science — King's College

SEPTEMBER 2016- JUNE 2020

Overall score: 91

Final-Year Project

- Developed methodology to create 3D model of judo scenes from as little as 1 photo
- 3D scanning Judo fight scenes: "I want that on my table!", I thought seeing a 360-view during World Championships.
- I aimed to test AI and pre-knowledge approaches to produce 3d-printable/AR-compatible model from minimum input.

Personal project

- I aim to encode "judo scenes" from visual input and feed that to PDDL for list of potential techniques in the scene
- Tested if PDDL judo model produces tactics like humans'

International Baccalaureate diploma — Stockholm

SEPTEMBER 2013- MAY 2016

Mathematics Higher Level - 7/7 (percentile 91¹)

Physics Higher Level - 6/7 (percentile 87¹)

Economics Higher Level - 6/7 (percentile 87¹)

WORK EXPERIENCE

ContactEngine, London — AI R&D intern

June 2020 - September 2020

Made ContactEngine's NLU model explainable with visualisation tool

Built Paraphrase-Identification based Chatbot - Mojo - for CE's website

Bank of America Merrill Lynch, London — Tech Analyst

June 2018 - June 2019

Research to optimise internal data-serialisation scheme (C++, UNIX)

- Achieved 10% process-level gain, saving 1000 nodes per process distributed to 10000. 100% faster hash-map
- Experimented hash-map techniques, tailored to use-cases

Software development (diagnostic analyses, Python, JavaScript, HTML...)

- Simplified analysis of file/project dependencies by building data-visualisation tool Depweb (Python Flask, D3)

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<https://github.com/MunkhtulgaB>

AWARDS & RESULTS

Alan Fairbourn Memorial Prize for
Most Meritorious Final Year Project by
King's College London

Full PhD funding scholarship

Sambrooke Exhibition in Natural Science 2017 highest-scoring student
of Year 1/2 at King's.

Full BSc tuition-free sponsorship by
State Training Foundation, the
government of Mongolia.

Idea Factory Startup Idea competition
at KCL semi-finalist

SKILLS

Java, Python, C++, SQL

Experimental analysis

Git, Gradle, UNIX

Mobile-dev: Kotlin, React Native

HTML, CSS, JavaScript

D3, Bootstrap, JQuery, Flexmonster

NodeJS Express, Python Flask

VOLUNTEERING

Crisis, 10K run for the homeless

Providence Row, art session

Anti air-pollution group admin

INTERESTS

Art painting, animation, fashion

Judo 1st Dan black belt.

REFERENCES

Dr Rita Borgo (1st supervisor)

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Dr Alexander J Turner (BofA)

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¹ <https://www.ibo.org/contentassets/bc850970f4e54b87828f83c7976a4db6/dp-statistical-bulletin-may-2016-en.pdf>