cistanbu@sfu.ca   https://istanbulluoglu.eth   /caglai   /caglaistanbulluoglu

CAGLA ISTANBULLUOGLU
(Pronounces as /cha:la/ in case it isn't obvious(!) 😊)

INTRO

In 2017, I got accepted into PhD programme at the department of Chemistry at Simon Fraser University, BC, Canada. In 2019, I passed my PhD candidacy exam. In 2020, my lab was closed due to COVID-19 and I've started to grow interest in data science, which brought me into Computer Science. Now, I am a senior year CS student at SFU, expecting to graduate in 2022.

EDUCATION

2020 – Present	**Simon Fraser University**, BC, Canada *Bachelor of Science, Computer Science*	3.72 / 4.33
2017 – 2020	**Simon Fraser University**, BC, Canada *PhD Candidate, Chemistry / Researcher in Material Science Lab.*	3.67 / 4.33
2014 - 2016	**Middle East Technical University**, Turkey *Master of Science, Chemistry*	3.43 / 4.00
2009 - 2014	**Middle East Technical University**, Turkey *Bachelor of Science, Chemistry*	3.12 / 4.00

PROJECTS

My decentralized personal webpage on blockchain   *https://istanbulluoglu.eth*

Implemented a single page React application using ThreadDB, which is a decentralized database on blockchain hosted by FileCoin and IPFS. Deployed this to the decentralized DNS service on Ethereum called ENS.

Mentor portal for BayTree, an educational charity for women and girls

Delivered a full-stack React application with fully functioning authentication system backed by a MongoDB database in one semester as a team of 6. Took the responsibility of DB management and majority of the back-end implementation. Took on scrum master role for a part of the project and received positive feedback.

My Shoe-size Finder

Built a webpage to solve one of the pains in online shopping – what is the right shoe size for me on this shoe model? It compares your size on shoes you already bought with other people's shoes sizes on the same set of shoes to make an educated guess on the one you'd like to purchase. So far, this algorithm has worked perfectly well for me and my friends.

Financial Tracker

Built a serverless React webpage using Firebase functions/auth/db to keep track of monthly financial assets over time. Features passwordless login and periodically connects to several FX and DCE APIs to populate historical data on stocks, currencies, and cryptocurrencies. It also makes use of local storage to allow users to use the app without signing up to increase user retention.

TECHNOLOGIES & LANGUAGES

Languages	English (fluent), Turkish (native)
Real languages	C, C++, Java, Python, SQL, JavaScript, TypeScript
Frameworks	Web3, React, MongoDB, Node, Spring, Firebase

EXPERIENCE (in Chemistry)

2017 – 2020	**Research and Teaching Assistant**	*Simon Fraser University, BC, Canada*

Assisted several undergrad-level Chemistry courses by mentoring students, supervising them in laboratories, preparing quizzes/exams, and assessing their reports.

2015 – 2017	**Research and Teaching Assistant**	*Middle East Technical University, Turkey*

Assisted several grad- and undergrad-level Chemistry courses, held lectures, by mentoring students, supervising them in laboratories, preparing quizzes/exams, and assessing their reports.

2014 – 2015	**Project Researcher at ECOPIX EU Project**	*Middle East Technical University, Turkey*

Designed and synthesized several monomers and red, green, blue, and yellow polymers for electrochromic device applications.

2013	**Visiting Researcher**	*GUNAM OSC Laboratory, Nurnberg, Germany*

Synthesized Donor-Acceptor type low and medium band gap polymers; conducted their electrochemical, spectro-electrochemical, and kinetic characterizations; and constructed their organic light emitting diode and organic solar cell applications.

PUBLICATIONS & PRESENTATIONS (in Chemistry)

- Cetin A.; **Istanbulluoglu C**.; Hacioglu S. O.; Cevher S. C.; Toppare L.; Cirpan A., *J. Polym. Sci., Polym. Chem.,* **2017**, 55, 3705-371.
- Azeri Ö.; Aktas E.; **Istanbulluoglu C**.; Hacioglu S. O.; Cevher S. C.; Toppare L.; Cirpan A., *Polymer*, **2017**, DOI: 10.1016/j.polymer.2017.11.024.
- **Poster Presentation** *in E-MRS 2016 - Advanced materials and characterization techniques for solar cells in Lille, France*
- **Istanbulluoglu C**.; Goker S.; Hizalan G.; Hacioglu S. O.; Udum Y. A.; Yildiz D. E.; Cirpan A.; Toppare L., *New J. Chem.* **2015,** *39*, 6623-6630.