Michal Torma

📞 +47 966 94 778 | 🖂 miso.torma@gmail.com | 🕥 MichalTorma | 🖹 Amarok | **in** michal-torma

Education

University of South-Eastern Norway

Bø i Telemark

MASTER IN ENVIRONMENTAL SCIENCE

June 2019

· Master thesis - The reliability of Citizen-science data collection - analysis of Natur i Endring project

University of Zilina Zilina, Slovakia

BACHELOR IN NATURE PROTECTION AND LANDSCAPE MANAGEMENT

June 2014

• Telemark university collage, Bø i Telemark, Norway — Erasmus study of Friluftsliv (Outdoor life) - spring 2012

Skills _____

Programming languages Python, Dart, Kotlin, Swift, Java, SQL, C, LaTex

Frameworks Flutter, Django, Flask, Keras/TF, WordPress

DevOps Docker, Kubernetes, Google cloud platform, Linux administration

Experience _____

University of Oslo

Oslo, Norway

HEAD ENGINEER April. 2018 - PRESENT

• Development of Natur i Norge Guide in collaboration with Rune Harvorsen and Artsdatabanken. The app is a concise synthesis of Natur i Norge textbooks presented in an interactive manner. It's main objective is to help professional mappers identify which nature type they encounter while mapping in the field. The app is written in Flutter and available on the web, Android and iOS

University of Oslo Oslo, Norway

EXECUTIVE OFFICER

Jan. 2018 - PRESENT

• Development and maintenance of a citizen science project called Natur i Endring (made in collaboration with DNT, NHM and Norsk Fjellsenter and financed by Sparebankstiftelsen). The project consists of a mobile app for Android and iOS (written in Flutter). Alongside the frontend apps, I created and now maintain kubernetes cluster (running on Google Kubernetes Engine) with Django backend and PostGis database to handle the data collection and automated data analysis. This project has been awarded Forskerforbundets Hjernekraft prisen by the The Norwegian Association of Researchers

Hewlett-Packard Prague, Czech Republic

LINUX ADMINISTRATION LECTURER

Jul. 2009 - Aug. 2010

· Lecturing one week long courses of linux administration for an enterprise's IT staff. Lectures were designed as a interactive way of learning starting with basic commands and system overview, and ending with kernel compilation

Self-employed Martin, Slovakia

WEB DEVELOPER

Jan. 2008 - Apr. 2019

• Developed multitude of webpages based on WordPress framework for small local businesses. Here are some examples. sjoormen.no - Webpage for promotion of Garvikstrondi camping (Seljord, Norway)

classervice.sk - Webpage for local taxi service (Martin, Slovakia)

Apple retailer Martin, Slovakia

Apr. 2007 - Aug. 2008 IT TECHNICIAN

• Worked as an IT technician for small Apple retailer.

Projects _____

NiN mapping

Jul 2020

- Took part in Natur i Norge mapping study in Karasjok (Norway) as a part of GEco group under NHM UIO.
- · The project was based around the mapping of a study area by multiple mappers, and subsequent analysis of mapping inconsistencies.

GIS data scrubbing and analysis

Jan. 2018 - PRESENT

- Django based solution for GIS data gathering from legacy sources
- Personal project that gathers forestry data in Slovakia from old public servers where the only public option to access the data is through Silverlight web app. This solution gathers the available data while keeping track of sparse changes in time. Metadata for individual polygons are gathered from .NET server, decoded from binary XML files and stored in organized PostGis database.

Android app for camping

Jul. 2017 - Aug. 2017

- · App designed to support exploration of natural surroundings for tourists in Garvikstrondi camping (Seljord, Norway). Google Play store
- Offline-capable map including tracks of hikes in the area with detailed descriptions

Accelerometric data analysis

Aug. 2015 - Jul. 2017

Unsupervised machine learning project for analysis of accelerometric data from brown bear (*Ursus arctos*) to identify distinct animal behaviors.
Project used Keras library for deep neural networks

Publications _

Conference paper

Nov. 2019

• Bryn, A., Habberstad, M-Ø., Hjelle, A.M.A., Horvath, P., Langen, M.H., Lund, O., Torma, M. & Volden, I.K. (2019): Folkeforskning om klima og skoggrenser: www.naturiendring.no. In Lerkelund, H.E. (ed.) Forskning i Friluft 2018, page 277-283.

Exhibition

Jul. 2020

Bryn, A., Dalen, T.G., Finne, E.A., Heiberg, H., Keetz, L.T., Nilsen, I.B., Parmentier, F-J., Snekkenes, C., Stordal, F., Aas, K.S., Alhuizen, I., Berntsen, T.K., Bjerke, J.W., Bright, R.M., Dyrrdal, A.V., Geange, S., Opel, T., Pirk, N., Puschmann, O., Tang, H., Torma, M., Vollsnes, A.V., Westermann, S. & Yilmaz, Y. (2020): Natur i endring. Museumsutstilling lagd for forskningsprosjektene EMERALD (NFR) og Natur i endring (Sparebankstiftelsen DNB). Stilles ut i Klimahuset ved Naturhistorisk museum (UiO) og Norsk Fjellsenter (Lom). Åpnet 26. Mars 2020. Naturhistorisk museum (UiO) og Bolt & Klock Utstillingsdesign, Oslo.

Presentations ___

EMERALD presentation

Oct. 2020

Presentation of preliminary results from Karasjok NiN mapping project for EMERALD group at NHM

NIBIO presentation of Natur i Endring infrastucture

Apr. 2019

• Presentation of the underlying infrastructure for Natur i Endring project

Natur i Endring presentation

Jul. 2020

• Bryn, A., Dalen, T.G., Finne, E.A., Heiberg, H., Keetz, L.T., Nilsen, I.B., Parmentier, F-J., Snekkenes, C., Stordal, F., Aas, K.S., Alhuizen, I., Berntsen, T.K., Bjerke, J.W., Bright, R.M., Dyrrdal, A.V., Geange, S., Opel, T., Pirk, N., Puschmann, O., Tang, H., Torma, M., Vollsnes, A.V., Westermann, S. & Yilmaz, Y. (2020): Natur i endring. Museumsutstilling lagd for forskningsprosjektene EMERALD (NFR) og Natur i endring (Sparebankstiftelsen DNB). Stilles ut i Klimahuset ved Naturhistorisk museum (UiO) og Norsk Fjellsenter (Lom). Åpnet 26. Mars 2020. Naturhistorisk museum (UiO) og Bolt & Klock Utstillingsdesign, Oslo.