

# Self-Introduction

D1 Kota Nagasaki (長崎滉大)

## Brief history

Lived in **Fujinomiya** in Shizuoka until 11-year-old

Lived in **Edogawa** ward from 11-year-old

Researched at **TU Delft** in the Netherlands in M1

## Hobby

**Watching baseball** (Giants)/ **Playing Catchball**  
**Ramen Jiro** (Complete 27/42)

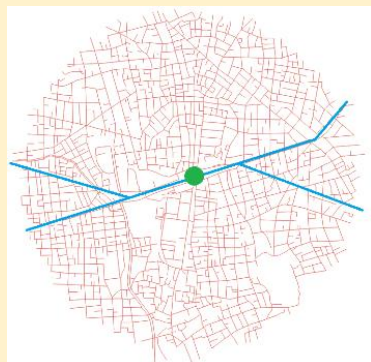
## Comment

This is my seventh year to belong to TokyoTech

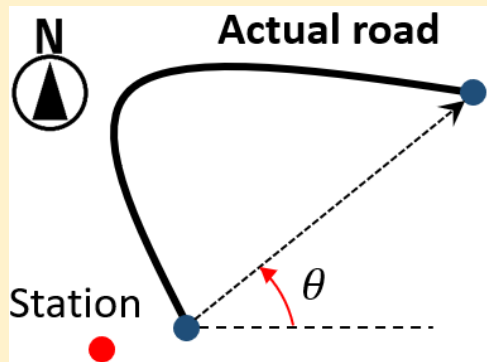
This is my fourth year to belong to Asakura lab.

# Research Introduction

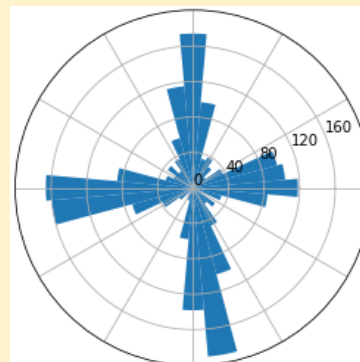
- Analyze road network around a station with focusing on each road orientation by applying **directional statistics** that is statistics for angular data.
- Extract road network around a station and calculate road orientation of each road.
- Draw **rose diagram** that is a histogram for angular data and **estimate parameter** of Mixture of Kato-Jones distribution that is multimodal and can represent flexible shape of distribution.
- I developed the method to estimate parameter for the distribution.**
- Clarify many road networks around a station tend to grid pattern.
- Furthermore, I try to apply the method of directional statistics to traffic volume and so on.



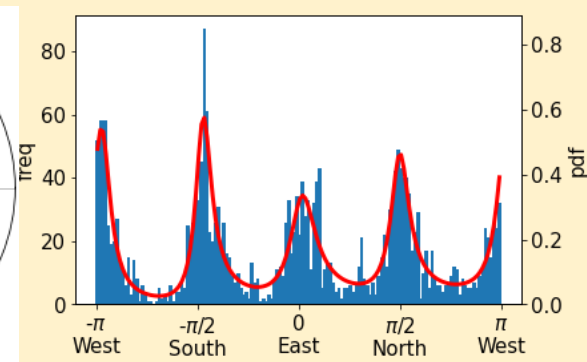
Road network



Data processing



Rose diagram



Estimate parameter