



# <https://github.com/mxochicale/phd-thesis>

mxochicale / phd-thesis

My open access PhD thesis (submitted: 26th October 2018, corrected: 20 May 2019).

36 commits · 1 branch · 2 releases · 1 contributor · CC-BY-SA-4.0

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Makelife	[final-version] alpha version	25 days ago
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Nonlinear Analysis to Quantify Movement Variability in Human-Humanoid Interaction

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0\_data [final-version] BETA · 19 days ago

1\_code [final-version] CORRECTED VERSION TO BE EXAMINED · 13 days ago

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### Code and data

This thesis has been written in GNU Linux Operating System and tested in Ubuntu 14.04.5 LTS and Ubuntu 16.04.2 LTS. For its replication, it is suggested that users install either Ubuntu 14.04.5 LTS or Ubuntu 16.04.2 LTS (other GNU Linux distributions can also work) with the latest version of R and its dependencies including GNU Octave version 4.0.2 (see [here](#) for installation of dependencies).

### Organisation of paths

`0_data` contains all the input data that is either retrieved from external sources or created manually. The core principle here is that nothing in this folder should ever be modified. The data in this folder should remain identical to the way that you have retrieved or manually created it.

`1_code` contains for all code files. This includes:

- 0\_mechanisms
- 1\_libraries\_functions
- 1\_dependencies
- 2\_anthropometrics
- 3\_fig1\_ch3
- 3\_creation\_of\_curated\_timeseries
- 5\_fig1\_ch4
- 7\_fig1\_ch5
- 8\_fig1\_ch6
- 9\_fig1\_appendices
- 10\_narrative

### Replication of results

For figure replication, the paths are organised as follows:

- `./code` contains R scripts that create figures in
- `./pic`, and
- `./vector` which contains the vector files.

### Clone github repository

```
mkdir -p $HOME/phd && cd $HOME/phd
git clone https://github.com/mxochicale/phd-thesis
# create temporal paths
mkdir -p $HOME/phd/tmp/phdupdate
```

## OA DATA

- \* Multidimensional Times-series
- 22 participants,
- 4 IMUs (6 axis), and
- 4 Activities.

## OA SOFTWARE

- \* R version 3.4.4 (2018-03-15)
- \* R packages:
  - data.table
  - ggplot2
  - tseriesChaos
  - nonlinearTseries
  - RccArmadillo
- \* GNU Octave 4.0.2

## OA PhD Thesis

- \* LaTeX project
- \* Vector files

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