

Github home page

Notebook: My Notebook

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Tags: Notes

1. _data/navigation.yml

```
# main links links
main:
  - title: "Publication"
    url: /publications/

  # - title: "Talks"
  #   url: /talks/

  - title: "Research"
    url: /research/

  # - title: "Blog Posts"
  #   url: /year-archive/

  - title: "CV"
    url: /cv/

  - title: "Contact"
    url: /contact/
```

2. _pages/about.md

```
permalink: /
title: "About"
excerpt: "About me"
author_profile: true
redirect_from:
  - /about/
  - /about.html
---
```

I am a fifth-year Ph.D. student in the Department of Electrical and Computer Engineering at the University of Washington, advised by [Prof. Baosen Zhang](<https://zhangbaosen.github.io/>).

My research interests are in area of cyber-physical and energy systems, from the perspective of machine learning, optimization, and control.

During my Ph.D. studies, I developed algorithms for controlling and optimizing resources in energy systems and discovered fundamental, societal-scale insights in data-driven control systems. My work has been applied by Microsoft, Doosan Gridtech, Centrica, 3D.com and DeepMind.

News

3. _pages/contact.md

```

---
layout: archive
title: "Contact"
permalink: /contact/
author_profile: true
redirect_from:
  - /resume
---

{% include base_path %}

<br>
<strong>E-mail</strong>: yyshi@uw.edu

<strong>Address</strong>: Room 433, Electrical and Computer Engineering \\\
185 East Stevens Way NE\\
Seattle, WA 98195\\
[Map](https://www.google.com/maps/place/Paul+G.+Allen+Center+for+Computer+Science+%26+Engineering/@47.6533262,-122.3059081,15z/data=!4m2!3m1!1s0x0:0x12de8b2d1ad8504a?sa=X&ved=2ahUKEwiY56Gs5NnmAhWk9X0KHSvACscQ_81wCnoECBwQCA)
(via Google Maps)

```

4. _pages/cv.md

```

layout: archive
title: "CV"
permalink: /cv/
author_profile: true
redirect_from:
  - /resume
---

{% include base_path %}

My latest CV could be downloaded [here](https://drive.google.com/file/d/1YhGSdPmX7D1gexGghFUXenSIwg41brn/view?usp=sharing).

<object data="https://shiyuanyuan.site/images/cv.pdf" type="application/pdf" width="500px" height="500px">
  <embed src="https://shiyuanyuan.site/images/cv.pdf">
    <p>This browser does not support PDFs. Please download the PDF to view it: <a href="https://shiyuanyuan.site/images/cv.pdf">Download PDF</a>.</p>
  </embed>
</object>

```

5. _pages/publications.md

```

layout: archive
title: "Publication"
permalink: /publications/
author_profile: true
---
{% include base_path %}

You can also find all my articles on my [Google Scholar](https://scholar.google.com/citations?user=XkrVZrwAAAAJ&hl=en)

### Preprints

1. Yuanyuan Shi, Baosen Zhang, ["Learning in Cournot Games with Limited Information Feedback'"](https://arxiv.org/abs/1906.06612), arXiv Preprint.

2. Yuanyuan Shi, Meng Qi, Chenxin Ma, Rong Yuan, Di Wu, and Zuojun (Max) Shen, "A Practical End-to-End Inventory Management Model with Deep Learning'', submitted to Management Science.

3. Yize Chen, Yuanyuan Shi, and Bao Zhang, "Data-Driven Optimal Voltage Regulation'', submitted to Power Systems Computation Conference (PSCC), 2020.

### Journal Papers

```

6. _research (the detailed introduction for each project)

```

title: "Optimal Control Via Neural Network: A Convex Approach"
excerpt: "Deep neural networks have proven to be successful in many identification tasks,
however, from the model-based control perspective, these networks are difficult to work with
because they are typically non-linear and non-convex. In this work, we bridge the gap between
model accuracy and control tractability faced by neural networks, by explicitly constructing
input convex neural networks (ICNN). It leads to significant energy savings for building HVAC
management. "
collection: research
---
<p>&nbsp;</p>

Control of complex systems involves both system identification and controller design. Deep
neural networks have proven to be successful in many identification tasks, however, from model-
based control perspective, these networks are difficult to work with because they are typically
non-linear and non-convex. Therefore many systems are still identified and controlled based on
simple linear models despite their poor representation capability. In this work, we bridge the
gap between model accuracy and control tractability faced by neural networks, by explicitly
constructing networks that are convex with respect to their inputs.
<p align="center">

```

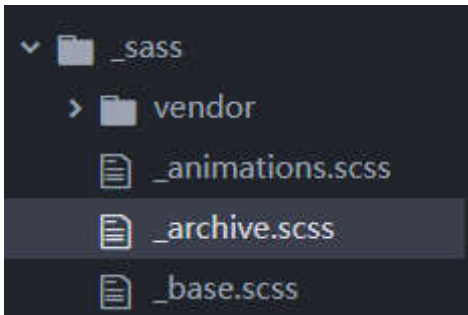
7. _config.yml

```

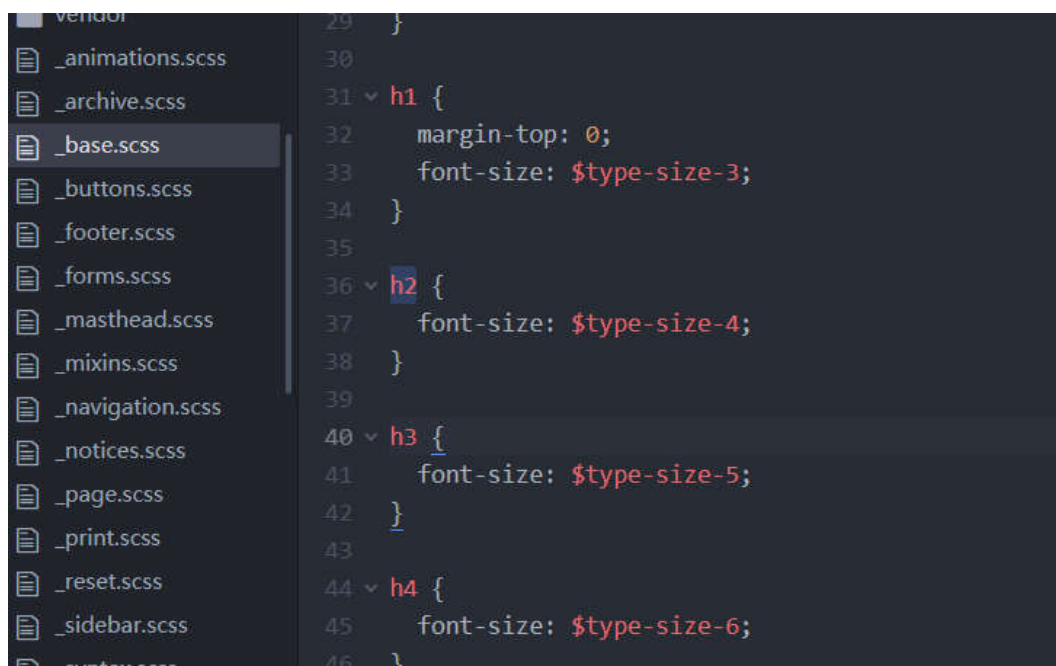
# Site Author
author:
  name       : "Yuanyuan Shi"
  avatar     : "profile.png"
  bio        : "Ph.D. Candidate, Electrical and Computer Engineering University of Wa
  location    : #"185 East Stevens Way NE, Seattle"
  employer    :
  pubmed     : # "https://www.ncbi.nlm.nih.gov/pubmed/?term=john+snow"
  googlescholar : "https://scholar.google.com/citations?user=XkrVZrwAAAAJ&hl=en"
  email      : "yyshi@uw.edu"
  researchgate : # example: "https://www.researchgate.net/profile/yourprofile"
  uri        :
  home       : "http://shiyuanyuan.site/" # null (default), "absolute or relative url
  bitbucket  :
  codepen    :
  ....

```

8.



9. change the fonts



when we try to change the navigate, the space is very important. Otherwise there will be errors !

```
1  # main links links
2  main:
3    - title: "Publication"
4      url: /publications/
5
6
7
8    - title: "Talks"
9      url: /talks/
10
11  #- title: "Teaching"
12    # url: /teaching/
13
14  - title: "Research"
15    url: /research/
16
17  # - title: "Blog Posts"
18  #   url: /year-archive/
19
20  - title: "CV"
21    url: /cv/
22
23  - title: "Contact"
24    url: /contact/
25
```