

# Han Yang

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## 1 Research Interests

Primary research interests are related to the modeling and simulation of static/dynamic inelastic behavior of engineering solids and structures. Focus is on the development and application of a computational framework for high performance, time domain, nonlinear/inelastic, deterministic or probabilistic, multidimensional, finite element modeling and simulation. One particular interest is the propagation and dissipation of seismic wave energy during earthquake soil structure interaction. Developed analysis framework, along with extensive verification and illustrative examples, is part of the MS-ESSI Simulator System (<http://ms-essi.info>). Current work include:

- High performance computing and visualization in structural and geotechnical mechanics
  - Thermomechanical-based energy analysis methodology for nonlinear system
  - Static and dynamic modeling of elastic/inelastic material behavior
  - Modeling and simulation of earthquake soil structure interaction system
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## 2 Teaching Interests

Teaching interests are closely connected with, but not limited to, my research focuses, which are on the theoretical, computational, and applied aspects of mechanics on both undergraduate and graduate levels. In particular, recent teaching activities and interests include:

- Theoretical and computational elastic-plastic mechanics
  - Static and dynamic, nonlinear finite element methods
  - Application of computational modeling and simulation system to engineering problems
  - Fundamental aspects of theoretical mechanics
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## 3 Education

**Doctor of Philosophy** in Geotechnical Engineering at the University of California, Davis. Graduation expected in May 2019. Thesis title: "*Modeling of Energy Dissipation in Earthquake Soil Structure Interaction*". Advisor: Professor Boris Jeremić.

**Bachelor of Engineering** in Hydraulic Engineering at Tsinghua University, Beijing, China. June 2015. Thesis title: "*Study on the meso-fabric development of granular materials based on DEM*". Advisor: Associate Professor Wen-Jie Xu.

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## 4 Academic Experience

**Graduate Student Researcher** at the University of California, Davis. Sep 2015 – Present.

- **High Performance, Multidisciplinary Simulations for Regional Scale Earthquake Hazard and Risk Assessments.** 2017 – Present, with Prof. Boris Jeremić (UCD, LBNL), Prof. David McCallen (UNR, UCOP, LBNL), Dr. Anders Petersson (LLNL), Dr. Hans Johansen (LBNL), Dr. Arthur Rodgers (LLNL), and Prof. James Rector (UCB and LBNL).

Modeling and simulation of large-scale earthquake soil structure interaction systems;  
Energy dissipation analysis for damage assessment and design improvement;  
Post-processing and visualization of large-scale finite element simulation results.

- **A Modern Computational Framework for the Nonlinear Seismic Analysis of Nuclear Facilities and Systems.** Sep 2015 – Present, with Prof. Boris Jeremić (UCD, LBNL), Prof. David McCallen (UNR, UCOP, LBNL), and Prof. Ian Buckle (UNR).

Theoretical and computational work on inelastic material models for solids and structures;  
Modeling, simulation, and visualization of inelastic systems for general purposes;  
Simulation and visualization of large-scale earthquake soil structure interaction systems;  
Modeling of energy dissipation in soils, structures, and their interactions.

**Undergraduate Student Researcher** at Tsinghua University. Aug 2013 – Jun 2015.

- **Meso-Fabric Evolution of Granular Materials based on Discrete Element Method.** Aug 2013 – Jun 2015, with Assoc. Prof. Wen-Jie Xu (Tsinghua University).

Modeling and simulation of granular materials using discrete element method;  
Statistical analysis and visualization of meso-fabric evolution in granular material.

- **Double-Arch Dam Modeling and Stability Study of the Dagangshan Dam in Sichuan, China.** Jul 2015 – Aug 2015, with Mr. Da-Lei Wang (China Guodian Corporation) and the Department of Hydraulic Engineering (Tsinghua University).

Field investigation, data collection/organization, and modeling studies.

- **Mapping and Geological Study in Hebei, China.** Jul 2015 – Aug 2015, with Assoc. Prof. Wen-Jie Xu (Tsinghua University), Prof. Qing-Bo Wen (Tsinghua University).

Project management, exploration route planning, and geological investigations.

**Visiting Scholar** at the University of Hong Kong. Aug 2014 – Sep 2014.

- **Geotechnical Hazard Investigation.** Aug 2014 – Sep 2014, with Prof. Zhong-Qi Yue (HKU).

Case study, analysis, and discussion on geotechnical hazards and mitigation methods;  
Literature review on the probable causes of seismic events.

## 5 Teaching Experience

*Teaching ratings and comments by anonymous students are attached in [Appendix A](#).*

**Teaching Assistant** at the University of California, Davis. Sep 2016 – Present.

- **ECI 280B: Linear and Nonlinear Dynamic Finite Elements, with Emphasis on Earthquake-Soil-Structure Interaction.** Graduate course. Spring 2017, Spring 2018. Course instructor: Prof. Boris Jeremić.

Substitute lectures, software learning sessions.

- **ECI 280A: Nonlinear Finite Elements for Elastic-Plastic Problems.** Graduate course. Winter 2018. Course instructor: Prof. Boris Jeremić.

Substitute lectures, software learning sessions.

- **ENG 104: Mechanics of Materials.** Undergraduate course. Fall 2016, Fall 2018. Course instructor: Prof. Boris Jeremić.

Nominated for Outstanding Graduate Student Teaching Award (OGTA);

Substitute lectures, preparation of homework questions and solutions, office hours.

- **ENG 35: Statics.** Undergraduate course. Winter 2017. Course instructor: Prof. Mark M. Rashid.

Nominated for Outstanding Graduate Student Teaching Award (OGTA);

Discussion sections, office hours, and exam grading.

- **ENG 104 Lab: Mechanics of Materials.** Undergraduate course. Winter 2018. Course instructor: Prof. Amit Kanvinde.

Lectures, lab sections, and lab report grading.

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## 6 Professional Experience

**Student Member** of the American Society of Civil Engineers (ASCE). Oct 2017 – Present.

**Member** of the Geotechnical Graduate Student Society (GGSS) at UC Davis. Sep 2015 – Present.

**Student Consultant** on the project “Support System in Soft Soil Excavation Sites in Tianjin China” at Tsinghua University. Sep 2014.

**Marketing & HR Assistant** at Thermo Fisher Scientific (China) Co., Ltd. Jan 2013 – Feb 2013.

## 7 Honors and Awards

**Outstanding Graduate Student Teaching Award (OGTA) Nomination.** Feb 2017.

”ENG 35: Statics” at the University of California, Davis.

**Outstanding Graduate Student Teaching Award (OGTA) Nomination.** Feb 2017.

”ENG 104: Mechanics of Materials” at the University of California, Davis.

**Chinese National Outstanding Graduates in Hydraulic Engineering.** Jul 2015.

**Tsinghua University Outstanding Undergraduate Thesis.** Jun 2015.

**Tsinghua University Scholarship for Research and Innovation Excellence.** Sep 2014.

**Department Scholarship for Research Excellence, Tsinghua University.** Sep 2014.

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## 8 Technical Meetings

1. **The 13th World Congress on Computational Mechanics (WCCM).** July 22–27, 2018. New York Marriott Marquis, New York City, NY, USA.
2. **The 11th National Conference on Earthquake Engineering (NCEE).** June 25–29, 2018. Westin Bonaventure Hotel and Suites, Los Angeles, CA, USA.
3. **The 5th Geotechnical Earthquake Engineering and Soil Dynamics (GEESD).** June 10–13, 2018. AT&T Executive Education and Conference Center, Austin, TX, USA.
4. **DOE Project Meeting.** March 16, 2018. Lawrence Berkeley National Laboratory, Berkeley, CA, USA.
5. **The 11th Geotechnical Graduate Student Society (GGSS) Round Table.** March 1, 2018. University of California, Davis, CA, USA.
6. **Workshop on Assessment of Structures Subject to Concrete Pathologies (ASCET) Phase III.** April 16–17, 2018. OECD Nuclear Energy Agency (NEA), Paris, France.
7. **The 15th International Conference of the International Association for Computer Methods and Advances in Geomechanics (IACMAG).** October 19–23, 2017. Hongshan

Hotel, Wuhan, China

8. **The 3rd International Conference on Performance Based Design in Earthquake Geotechnical Engineering (PBDIII)**. July 16–19, 2017. Westin Bayshore Hotel, Vancouver, BC, Canada.
9. **DOE Project External Advisory Board Meeting**. June 10 2017. Lawrence Berkeley National Laboratory, Berkeley, CA, USA.
10. **DOE Project Update and Look Ahead Meeting**. March 31 2017. University of California, Davis, CA, USA.
11. **Tsinghua University Graduate Student Seminar**. December 30, 2016. Tsinghua University. Beijing, China.
12. **DOE Project Meeting**. November 4, 2016. Lawrence Berkeley National Laboratory, Berkeley, CA, USA.
13. **DOE Project Meeting**. August 19, 2016. University of Nevada, Reno, NV, USA.
14. **DOE Project Meeting**. July 29, 2016. University of California, Davis, CA, USA.
15. **DOE Project Meeting**. June 10, 2016. Lawrence Berkeley National Laboratory, Berkeley, CA, USA.
16. **DOE Project Design Review Meeting**. December 11, 2015. University of California, Davis, CA, USA.
17. **DOE Project Meeting**. September 18, 2015. Lawrence Berkeley National Laboratory, Berkeley, CA, USA.
18. **American Geophysical Union (AGU) 2015 Fall Meeting**. December 14–18, 2015. Moscone Center, San Francisco, CA, USA.

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## 9 Publications

### Books

1. Boris Jeremić, Zhaohui Yang, Zhao Cheng, Guanzhou Jie, Nima Tafazzoli, Matthias Preisig, Panagiota Tasiopoulou, Federico Pisanò, José Abell, Kohei Watanabe, Yuan Feng, Sumeet Kumar Sinha, Fatemah Behbehani, **Han Yang**, and Hexiang Wang. *Nonlinear Finite Elements: Modeling and*

Simulation of Earthquakes, Soils, Structures and their Interaction. University of California, Davis, CA, USA; and Lawrence Berkeley National Laboratory, Berkeley, CA, USA, 1989-2018. ISBN: 978-0-692-19875-9. (Available for download from [here](#).)

### **Papers in Referred Journals**

*All papers in review and drafts in preparation are complete and available upon request.*

1. **Han Yang**, Dragan Kovačević, and Boris Jeremić. Dissipation and storage of mechanical energy in inelastic reinforced concrete shear wall. 2018 [Manuscript in preparation].
2. **Han Yang**, Hexiang Wang, Yuan Feng, Fangbo Wang, and Boris Jeremić. Modeling of inelastic earthquake soil structure interaction for nuclear power plants under realistic 3D seismic motions. 2018 [Manuscript in preparation].
3. **Han Yang**, Hexiang Wang, Yuan Feng, and Boris Jeremić. Plastic energy dissipation in pressure-dependent materials. 2018 [Manuscript in preparation].
4. **Han Yang**, Yuan Feng, Hexiang Wang, Fangbo Wang, and Boris Jeremić. Energy dissipation in solids due to inelasticity, viscosity, and algorithmic damping. *ASCE Journal of Engineering Mechanics*. 2018 [In review].
5. **Han Yang**, Yuan Feng, Hexiang Wang, and Boris Jeremić. Energy dissipation analysis for inelastic reinforced concrete and steel beam-columns. *Engineering Structures*. 2018 [In review].
6. **Han Yang**, Sumeet Kumar Sinha, Yuan Feng, David B McCallen, and Boris Jeremić. Energy dissipation analysis of elastic-plastic materials. *Computer Methods in Applied Mechanics and Engineering* 331 (2018): 309-326.
7. Hexiang Wang, **Han Yang**, Fangbo Wang, Yuan Feng, and Boris Jeremić. Implication of 3D inclined ground motion on soil structure interaction for deeply embedded structure. 2018 [Manuscript in preparation].
8. Hexiang Wang, **Han Yang**, Fangbo Wang, Yuan Feng, and Boris Jeremić. On the beneficial and detrimental mechanisms of  $3 \times 1C$  simplification of seismic motions. 2018 [Manuscript in preparation].
9. Fangbo Wang, Hexiang Wang, **Han Yang**, Yuan Feng, and Boris Jeremić. Stochastic domain reduction method for time-domain uncertain wave propagation with uncertain elastic solids. 2018 [Manuscript in preparation].

10. Yuan Feng, Kaveh Zamani, **Han Yang**, Hexiang Wang, Fangbo Wang, and Boris Jeremić. Procedures to build trust in nonlinear elastoplastic integration algorithm: Solution and code verification. *Engineering with Computers*. 2018 [In Review].
11. José Abell, Yuan Feng, **Han Yang**, Hexiang Wang, Fangbo Wang, and Boris Jeremic. Domain Specific Language for Finite Element Modeling and Simulation. *ASCE Journal of Computing in Civil Engineering*. 2018 [In review].
12. Wen-Jie Xu, **Han Yang**, and Guang-Yu Liu. Study on meso-mechanical behavior of sand modeled with realistically shaped particles. *International Journal of Geomechanics*. 2018 [In review].
13. Wen-Jie Xu, Guang-Yu Liu, and **Han Yang**. Study on the mechanical behavior of sands using 3D discrete element method with realistically shaped particles. *Géotechnique*. 2018 [In review].
14. Wen-Jie Xu, Wen-Tao Ding, Wei Xia, and **Han Yang**. Fluid-particle interaction in granular material using coupled 3D LBM-DEM. *Journal of Computing in Civil Engineering*. 2018 [In review].
15. **Han Yang**, Wen-Jie Xu, Qi-Cheng Sun, and Yuan Feng. Study on the meso-structure development in direct shear tests of a granular material. *Powder Technology* 314 (2017): 129-139.
16. **Han Yang**, Wen-Jie Xu, and Qi-Bin Zhang. Macro- and meso-mechanism study of strain localization in granular material. *Chinese Journal of Rock Mechanics and Engineering* 34.08 (2015): 1692-1701.

### Papers in Referred Conferences

1. **Han Yang**, Yuan Feng, Hexiang Wang, Fangbo Wang, and Boris Jeremić. Seismic energy flow calculation for Earthquake Soil Structure Interaction System. *Abstract Accepted for the 25th Structural Mechanics in Reactor Technology (SMiRT) Conference*. Charlotte, North Carolina, USA. August 04-09, 2019.
2. Yuan Feng, **Han Yang**, Hexiang Wang, Fangbo Wang, and Boris Jeremić. MS-ESSI Application Programs for Practicing Engineers. *Abstract Accepted for the 25th Structural Mechanics in Reactor Technology (SMiRT) Conference*. Charlotte, North Carolina, USA. August 04-09, 2019.
3. Yuan Feng, **Han Yang**, Hexiang Wang, Fangbo Wang, Greg Mertz, Tom Houston, Oleg Maslenikov, Jim Johnson, and Boris Jeremić. Composite Dynamic Finite Element Modeling Using Structural Super Element. *Abstract Accepted for the 25th Structural Mechanics in Reactor Technology (SMiRT) Conference*. Charlotte, North Carolina, USA. August 04-09, 2019.



4. Hexiang Wang, Yuan Feng, **Han Yang**, Fangbo Wang, and Boris Jeremić. Stress Test Seismic Motions for Nuclear Installations. *Abstract Accepted for the 25th Structural Mechanics in Reactor Technology (SMiRT) Conference*. Charlotte, North Carolina, USA. August 04-09, 2019.
5. Hexiang Wang, Fangbo Wang, **Han Yang**, Yuan Feng, Jeff Bayless, Marco Baglio, Norman A. Abrahamson, and Boris Jeremić. Seismic Risk Analysis Framework for Nuclear Installations. *Abstract Accepted for the 25th Structural Mechanics in Reactor Technology (SMiRT) Conference*. Charlotte, North Carolina, USA. August 04-09, 2019.
6. Fangbo Wang, Hexiang Wang, **Han Yang**, Yuan Feng, and Boris Jeremić. Stochastic Earthquake Soil Structure Interaction Analysis. *Abstract Accepted for the 25th Structural Mechanics in Reactor Technology (SMiRT) Conference*. Charlotte, North Carolina, USA. August 04-09, 2019.
7. Boris Jeremić, Yuan Feng, **Han Yang**, Hexiang Wang, Fangbo Wang, and David B. McCallen. The MS-ESSI Simulator System, Current Status. *Abstract Accepted for the 25th Structural Mechanics in Reactor Technology (SMiRT) Conference*. Charlotte, North Carolina, USA. August 04-09, 2019.
8. Boris Jeremić, Fangbo Wang, Yuan Feng, **Han Yang**, and Hexiang Wang. Deterministic and probabilistic modeling and simulation of earthquakes, soils, structures, and their interaction. *Abstract Accepted for the 7th international Conference on Earthquake Geotechnical Engineering (VII ICEGE)*. Roma, Italy. June 17-20, 2019.
9. **Han Yang**, David B. McCallen, and Boris Jeremić. Energy dissipation in earthquake soil structure interaction modeling and simulation. *In Proceedings of the 11th U.S. National Conference on Earthquake Engineering (NCEE)*. Los Angeles, California, USA. June 25-29, 2018.
10. Yuan Feng, Sumeet Kumar Sinha, **Han Yang**, Hexiang Wang, David B McCallen, and Boris Jeremić. 3D nonlinear Earthquake Soil Structure Interactions (ESSI) for Nuclear Power Plants (NPP). *In Proceedings of the 11th U.S. National Conference on Earthquake Engineering (NCEE)*. Los Angeles, California, USA. June 25-29, 2018.
11. **Han Yang**, Yuan Feng, Sumeet Kumar Sinha, Hexiang Wang, and Boris Jeremić. Energy Dissipation in Soil Structure Interaction System. *In Proceedings of the 5th Geotechnical Earthquake Engineering and Soil Dynamics (GEESD)*. Austin, Texas, USA. June 10-13, 2018.
12. Boris Jeremić, Yuan Feng, **Han Yang**, Hexiang Wang, Dragan Kovačević, Arthur Rodgers, and David B McCallen. Interface between earthquake ground motions and structural response: numerical modeling and simulation of ESSI behavior. *In Proceedings of Best Practices in Physics-based Fault Rupture Models for Seismic Hazard Assessment of Nuclear Installations: Issues and Challenges towards Full Seismic Risk Analysis*. Cadarache Château, France. May 14-16, 2018.

13. **Han Yang**, Sumeet Kumar Sinha, Yuan Feng, and Boris Jeremić. Evaluation of Energy Dissipation in Elastic-Plastic Solids. *In Proceedings of the 15th International Conference of the International Association for Computer Methods and Advances in Geomechanics (IACMAG)*. Wuhan, China. October 19-23, 2017.
14. Sumeet Kumar Sinha, Yuan Feng, **Han Yang**, Hexiang Wang, and Boris Jeremić. 3-D non-linear modeling and its effects in earthquake soil-structure interaction. *In Proceedings of the 21st Structural Mechanics in Reactor Technology (SMiRT) Conference*. Busan, Korea. August 20-25, 2017.
15. Hexiang Wang, **Han Yang**, Sumeet Kumar Sinha, Chao Luo, and Boris Jeremić. 3-D Non-Linear Earthquake Soil-Structure Interaction Modeling of Embedded Small Modular Reactor (SMR). *In Proceedings of the 21st Structural Mechanics in Reactor Technology (SMiRT) Conference*. Busan, Korea. August 20-25, 2017.
16. Boris Jeremić, José Antonio Abell, Yuan Feng, Maxime Lacour, **Han Yang**, Fatemah Behbehani, Sumeet Kumar Sinha, Hexiang Wang, David B McCallen, and Chao Luo. Verification for the Real ESSI Simulator. *In Proceedings of the 21st Structural Mechanics in Reactor Technology (SMiRT) Conference*. Busan, Korea. August 20-25, 2017.

### Technical Reports

1. **Han Yang**, Dragan Kovačević, and Boris Jeremić. Inelastic Reinforced Concrete Shear Wall Modeling. *Report to Organization for Economic Cooperation and Development (OECD) for Assessment of Structures Subject to Concrete Pathologies (ASCET) Project*. March 2018. (Not for public distribution).

### Technical Presentations

1. **Han Yang** and Boris Jeremić. Modeling of Energy Dissipation in Soil Structure Interaction System. *The 11th U.S. National Conference on Earthquake Engineering (NCEE)*. Los Angeles, CA, USA. June 25-29, 2018.
2. **Han Yang** and Boris Jeremić. Modeling of Energy Dissipation in Soil Structure Interaction System. *The 5th Geotechnical Earthquake Engineering and Soil Dynamics (GEESD) Conference*. Austin, TX, USA. June 10-13, 2018.
3. **Han Yang**, Dragan Kovačević, and Boris Jeremić. Modeling of Inelastic Reinforced Concrete Shear Wall using MS ESSI Simulator. *Workshop on Assessment of Structures Subject to Concrete Pathologies (ASCET) Phase III*. Paris, France. April 16-17, 2018. (Not for public distribution).

4. **Han Yang**, Sumeet Kumar Sinha, Yuan Feng, and Boris Jeremić. Evaluation of Energy Dissipation in Elastic-Plastic Solids. *The 15th International Conference of the International Association for Computer Methods and Advances in Geomechanics (IACMAG)*. Wuhan, China. October 19-23, 2017.
5. **Han Yang** and Boris Jeremić. Modeling of Seismic Energy Dissipation in Elastic-Plastic Materials. *UC Davis Geotechnical Graduate Student Society (GGSS) Round Table*. Davis, CA, USA. March 10, 2017.
6. **Han Yang**. Real ESSI Simulator Implementation: Energy Dissipation in Earthquake Soil Structure Interaction. *Tsinghua University Graduate Student Seminar*. Beijing, China. December 30, 2016.
7. **Han Yang** and Boris Jeremić. Energy Dissipation in Earthquake Soil Structure Interaction. *American Geophysical Union (AGU) 2016 Fall Meeting*. San Francisco, CA, USA. December 16, 2016.

### Theses

1. **Han Yang**. Study on the meso-fabric development of granular materials based on DEM. *Bachelor's Thesis*, Tsinghua University, Beijing, China. June 2015.

## Appendix A – Teaching Ratings and Comments

Official student evaluation files are attached in the next pages. Some highlights are:

- *Han is considerate and flexible, yet still demanding with work. He strikes a good balance as a firm yet helpful TA, and is definitely a ‘cool dude’.*
- *Very patient and kind TA. He prepare the lab lecture extremely clear and always willing to help us by answering our questions. One of the best TA ever.*
- *Very clear and thorough with the topic and presentation. Would recommend to teach any course.*
- *He would assist with the homework and give his input when asked questions, which were extremely helpful.*
- *Very helpful. I was surprised at how much information he was able to present during lectures and how well he was able to communicate concepts.*
- *Does a good job explaining concepts and working with students to make sure they understand.*
- *Strengths are knowledge of the material and ability to understand the student.*
- *Very approachable, very knowledgeable.*
- *Both lectures that this TA substituted for were very good. He was very organized and was very charismatic. I think we ended up applauding him both times.*
- *Han was great! He was so helpful in explaining concepts. He made sure that we knew what we had to know.*
- *When the TA held one of the lectures, it was easy to comprehend and follow. He would review what was gone over the previous lecture and also the basics so that we would understand what was being taught.*
- *Yang Han is an excellent TA. I struggled with lecture and he was always help me in office hour. I almost went to all of his office hour. He presented the material clearly and I enjoyed his teaching a lot!*
- *Connects with students and answers questions well. Good TA.*
- *Han was amazing! He was super helpful at office hours, answered complicated questions very clearly, he always knew what he was talking about, and he was always asking students how he could improve. Honestly, he’s probably the reason I’m passing the class right now. I go to his office hours every week.*

Teaching Assistant Han Yang

Winter Quarter 2018  
ENG 104L (003) 52952

Enrollment 9  
% responding 66

UNIVERSITY OF CALIFORNIA - DAVIS

Student Evaluation of Teaching



	Strongly Agree		Agree		Neutral		Disagree		Strongly Disagree		$\bar{X}$	SD	M	N
	5	%	4	%	3	%	2	%	1	%				
Please indicate the overall educational value of the course. (excellent   very good   satisfactory   fair   poor)	1	17%	3	50%	1	17%	1	17%	0	0%	3.7	0.9	4.0	6
Please indicate the overall teaching effectiveness of the teaching assistant. (excellent   very good   satisfactory   fair   poor)	6	100%	0	0%	0	0%	0	0%	0	0%	5.0	0.0	5.0	6
The TA was consistently prepared with well-organized lectures.	6	100%	0	0%	0	0%	0	0%	0	0%	5.0	0.0	5.0	6
The TA presented material clearly at an appropriate rate.	6	100%	0	0%	0	0%	0	0%	0	0%	5.0	0.0	5.0	6
The TA challenged students to do their best work.	5	83%	1	17%	0	0%	0	0%	0	0%	4.8	0.4	5.0	6
The TA answered questions clearly.	6	100%	0	0%	0	0%	0	0%	0	0%	5.0	0.0	5.0	6
The TA was accessible during stated office hours.	5	83%	1	17%	0	0%	0	0%	0	0%	4.8	0.4	5.0	6

**Note any teaching characteristics that you consider particular strengths or weaknesses of the TA.**

Very helpful

Han is considerate and flexible, yet still demanding with work. He strikes a good balance as a firm yet helpful TA, and is definitely a 'cool dude.'

Harsh grading when it comes to formatting. Should be more open to formatting if it means the same thing, but isn't in the same exact words.

Very patient and kind TA. He prepare the lab lecture extremely clear and always willing to help us by answering our questions. One of the best TA ever

Very clear and thorough with the topic and presentation. Would recommend to teach any course.

Teaching Assistant Han Yang

Winter Quarter 2017  
ENG 035 (A01) 22674

Enrollment 28  
% responding 50

UNIVERSITY OF CALIFORNIA - DAVIS

Student Evaluation of Teaching



	Strongly Agree	Agree	Neutral	Disagree	Strongly Disagree	$\bar{X}$	SD	M	N
	5 %	4 %	3 %	2 %	1 %				
Please indicate the overall educational value of the course. (excellent   very good   satisfactory   fair   poor)	13 93%	1 7%	0 0%	0 0%	0 0%	4.9	0.3	5.0	14
Please indicate the overall teaching effectiveness of the teaching assistant. (excellent   very good   satisfactory   fair   poor)	8 57%	4 29%	2 14%	0 0%	0 0%	4.4	0.7	5.0	14
The TA was consistently prepared with well-organized lectures.	9 64%	4 29%	0 0%	1 7%	0 0%	4.5	0.8	5.0	14
The TA presented material clearly at an appropriate rate.	10 71%	3 21%	0 0%	1 7%	0 0%	4.6	0.8	5.0	14
The TA challenged students to do their best work.	11 79%	2 14%	1 7%	0 0%	0 0%	4.7	0.6	5.0	14
The TA answered questions clearly.	9 64%	4 29%	0 0%	1 7%	0 0%	4.5	0.8	5.0	14
The TA was accessible during stated office hours.	6 60%	3 30%	0 0%	1 10%	0 0%	4.4	0.9	5.0	10

**Note any suggestions for improving the course (include comments on the amount of time required by the course/discussion/lab)**

The lectures felt a little long but helpful overall, mainly because of the early morning classes.

Bigger handwriting

**Note any teaching characteristics that you consider particular strengths or weaknesses of the TA.**

He would assist with the homework and give his input when asked questions, which were extremely helpful.

Very clear

Teaching Assistant Han Yang

Fall Quarter 2016  
ENG 104 (001) 32314

Enrollment 125  
% responding 61

UNIVERSITY OF CALIFORNIA - DAVIS

Student Evaluation of Teaching



	Strongly Agree		Agree		Neutral		Disagree		Strongly Disagree		$\bar{X}$	SD	M	N
	5	%	4	%	3	%	2	%	1	%				
Please indicate the overall educational value of the course. (excellent   very good   satisfactory   fair   poor)	19	25%	24	31%	26	34%	3	4%	5	6%	3.6	1.1	4.0	77
Please indicate the overall teaching effectiveness of the teaching assistant. (excellent   very good   satisfactory   fair   poor)	39	52%	25	33%	11	15%	0	0%	0	0%	4.4	0.7	5.0	75
The TA was consistently prepared with well-organized lectures.	43	61%	22	31%	5	7%	0	0%	0	0%	4.5	0.6	5.0	70
The TA presented material clearly at an appropriate rate.	40	58%	24	35%	5	7%	0	0%	0	0%	4.5	0.6	5.0	69
The TA challenged students to do their best work.	31	46%	28	42%	8	12%	0	0%	0	0%	4.3	0.7	4.0	67
The TA answered questions clearly.	40	56%	25	35%	6	8%	0	0%	0	0%	4.5	0.6	5.0	71
The TA was accessible during stated office hours.	37	57%	20	31%	7	11%	1	2%	0	0%	4.4	0.7	5.0	65

**Note any suggestions for improving the course (include comments on the amount of time required by the course/discussion/lab)**

This course required over 25 hours per week outside of class. Midterms are designed so that the average score is 50%.

None

The lectures are hard to relate to the homework which were also difficult to relate to exams. I spent an extraordinary amount of time on homework for this class, and it would be helpful to have some easier questions that help solidify concepts before starting in on challenging questions.

Would be helpful if the homework stated which sections of the book or lecture material that the hw problems would be on.

Grading system should be easier for students

-it would be helpful if there were weekly review sessions

Some assignments were way longer than others, grading should be more methods and work than final numerical Answers

This class takes a lot of studying but I would imagine that's how it has to be. The grading system is strange, with more points available than are graded, but it works. Also I think the majority of the class failed at least one midterm so perhaps there's something to be done about that.

The amount of time required to complete the homework was pretty unreasonable. Lectures were awesome and engaging although sometimes we lingered on elementary topics for too long.

BETTER PROFESSOR

its cool

Have hw's more consistent (same # of problems) to make time devoted to class the same every week.

Make it clear how the lecture relates to the text by giving a lecture outline at the beginning of each class with the corresponding book sections.

Homework assignments were very time consuming and students were often having to go to office hours to figure it out. Make assignments simpler

The lectures are sort of all over the place, concepts seem to be unorganized and not written down.

Perhaps a discussion section would be helpful to go over problems that would be similar on homework and exams.

Be more clear. Way too much homework. Exams unreasonable.

I felt the grading could have been more fair on the midterms and that practice exams would have been nice since the midterms tested your knowledge in a different way than the homework did. The first and last homework assignments were also of unreasonable length, but the middle ones were fair. I felt the professor had an unrealistic expectation for how much time the students could devote to his class alone. I know a lot of people that have low grades in the class and though he gave us ample extra credit opportunities, we were expected to do 50 extra practice problems to get full points. This is in addition to the 10-15 hours of homework each week plus 4 hours of lecture, not to mention our other course work. For students like myself who have to work 14-20 hours a week to afford rent and food there just simply isn't enough time in the day.

The amount of homework varied widely. Sometimes there was no homework, sometimes there was a normal amount, and twice there was an overload. Please don't ever assign 20 problems over Thanksgiving break again. Also, please can there be something that posts grades? I am not able to make it to most office hours, so the first time I had any idea of my scores was on the day of the second midterm, and I still don't know how my scores stack up in the class. Going in to finals not knowing if I have a D or a B makes me a little nervous. I liked the lecture style, and I really appreciated all of the example problems in class. Professor is very easy to approach with questions.

the homework is way to involved

**Note any teaching characteristics that you consider particular strengths or weaknesses of the TA.**

Very helpful

Very helpful. I was surprised at how much information he was able to present during lectures and how well he was able to communicate concepts.

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There were too many times that I showed up to office hours and the TAs were either not there or were late. It would be very appreciated if students were notified before emails were sent that office hours would be canceled.

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Han - your lectures were great! I got more out of your lectures than the professor's. Thanks for all of your help!

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Does a good job explaining concepts and working with students to make sure they understand.

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Strengths are knowledge of the material and ability to understand the student.

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Both lectures that this TA substituted for were very good. He was very organized and was very charismatic. I think we ended up applauding him both times.

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very approachable, very knowledgeable

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Han was great! He was so helpful in explaining concepts that the professor did not explain well. He made sure that we knew what we had to know.

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When the TA held one of the lectures, it was easy to comprehend and follow. He would review what was gone over the previous lecture and also the basics so that we would understand what was being taught.

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Yang Han is an excellent TA. I struggled with lecture and he was always helpme in office hour. I almost went to all of his office hour. He presented the material clearly and I enjoyed his teaching a lot!

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Connects with students and answers questions well. Good TA

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Han was amazing! He was super helpful at office hours, answered complicated questions very clearly, he always knew what he was talking about, and he was always asking students how he could improve. Honestly, he's probably the reason I'm passing the class right now. I go to his office hours every week.

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