

## Guidance for Doctor Course Students

Grad. School of IPS,  
Waseda University

1

## References

- "Research Ethics" powerpoint - University of Delaware
  - [http://www.sepp.udel.edu/sites/sepp.udel.edu/files/users/common/Research\\_Ethics\\_Powers.ppt](http://www.sepp.udel.edu/sites/sepp.udel.edu/files/users/common/Research_Ethics_Powers.ppt) (Accessed at Feb. 5, 2015)
- Waseda University Charter for Academic Research Ethics
  - <http://www.waseda.jp/inst/ore/en/>
- IEEE Code of Ethics
  - <http://www.ieee.org/about/corporate/governance/p7-8.html> (Accessed at Feb. 5, 2015)

2

## Violation of Research Ethics

- Plagiarism (剽窃)
- Fabrication (Invention) & falsification of data (捏造・偽造、歪曲)
- Conflicts of Interest (利益相反)
- Problems might be from
  - dishonesty, envy, exploitation, lack of collegiality, self-promotion, sloth, arrogance, etc.

3

## Plagiarism (剽窃)

- Steal other persons' ideas and sentences
  - Sentences are covered by copyright
- Check tools are widely distributed and Plagiarism will easily be detected
  - Resemblance can be checked with respect to all manuscripts opened on Web
  - Your paper should be checked by your supervisor
    - Please do not lose your supervisor's reliance
- Please correctly refer a paper if you might use other person's idea

4

## Fabrication & falsification of data (偽造、歪曲)

- Use incorrect data or hand-made data
- Data reproduction is requested
  - Not only the data itself but also data reproduction method and its correctness are important
  - Your supervisor will verify your data

5

## Conflicts of Interest (利益相反)

- Interested parties (persons) who give the bias (bad effect) to the research
  - Support money from Industries
- Independence of research is important

6

## Lecture on Research Ethics

- "Introduction to Research Ethics"
  - Indispensable to apply the doctor's degree
  - Full on-demand, needs one quarter
    - Opened at both of Summer quarter and Winter quarter
  - Supplied by Global Education Center
  - English would be supplied by credit titles at the bottom of the display

7

## 2.1 博士後期課程の修了要件

### 【博士後期課程の修了要件】

博士後期課程に3年以上在学し、各研究科の定めた所定の単位を修得し、所要の研究指導を受けた上、博士論文の審査および試験に合格すること

### 【課程内審査の対象者】

- 博士後期課程3年以内
- 延長生（博士後期課程に3年を超えて在籍、ただし延長は3年以上限）
- 博士後期課程（研究指導終了による）退学後3年以内

第14条 博士課程の修了の要件は、博士課程に5年（修士課程に2年以上在学し、当該課程を修了した者にあつては、当該課程における2年の在学期間を含む。）以上在学し、各研究科の定めた所定の単位を修得し、所要の研究指導を受けた上、博士論文の審査および試験に合格することとする。ただし、在学期間に関しては、優れた研究業績を上げた者について当該研究科運営委員会等が認めた場合限り、博士課程に3年（修士課程に2年以上在学し、当該課程を修了した者にあつては、当該課程における2年の在学期間を含む。）以上在学すれば足りるものとする。

2～4 省略

5 博士論文を提出しないで退学した者のうち、博士後期課程の場合は3年以上、一貫制博士課程の場合は5年以上在学し、かつ、必要な研究指導を受けた者は、退学した日から起算して3年以内限り、当該研究科運営委員会等の許可を得て、博士論文を提出し、試験を受けることができる。

(早稲田大学大学院規則より抜粋)

8

## 2.2 研究倫理教育の受講

博士學位論文の受理要件として…

研究科が定める研究倫理に関する教育を受講する必要がある

※先進理工学研究科では専攻指定の科目あり、詳細は指導教員に確認してください

グローバルエデュケーションセンター設置科目

『研究倫理概論』(Research Ethics) -研究者を目指す人々へ-

春学期 夏クォーター (2単位) または

秋学期 冬クォーター (2単位) 単位取得

※フルオンデマンドによる講義、英訳あり

※受講するためには科目登録が必要です

研究倫理の必要性、研究の計画・遂行・成果等に関する基本的事項を具体的事例を交えて紹介

<知的財産><研究倫理><研究計画><研究ノート>  
<先行研究><適切な引用><研究と法><利益相反>  
<動物福祉><被験者保護><民生技術の軍事転用> etc

9

## 研究倫理概論の内容(2019年度)

1. 研究の完整と倫理
  2. 現代社会における科学技術
  3. EU/欧米諸国における研究倫理
  4. 研究における不正行為: FFP (ねつ造・改ざん・盗用) の実際
  5. 研究における不正行為と法、利益相反
  6. 研究計画のあり方
  7. 研究対象者保護の基本①
  8. 研究対象者保護の基本②
  9. 心理学と研究倫理
  10. 研究ノートとデータ管理の実践
  11. メンターとトレイニー、Authorshipと出版の倫理、共同研究
  12. 研究・教育と著作権
  13. 企業と研究倫理
  14. 安全保障と科学技術
  15. 研究倫理の実践: 早稲田大学の体制、おわりに
- \*理解度確認課題・テスト

Course N@viより

10

### Waseda University Charter for Academic Research Ethics

- The mission of Waseda University is to achieve a high ideal of academic research that conforms with its founding principles of Academic Independence and Enterprising Spirit. Specifically, the University wishes to contribute to human welfare and world peace through academic research. As such, academic researchers associated with the University shall make efforts to maintain its good tradition and constantly strive to improve themselves in accordance with a good conscience.

Preamble

11

### Waseda University Charter for Academic Research Ethics

- Researchers will courageously tackle the challenges facing modern society while considering that academic research has a great influence on humanity, society, and the natural environment. The University guarantees that its academic research will not only be reliable and fair, but also free from unnecessary constraints. With regard to its assurances and social responsibility, this University declares that all researchers and those concerned with research activities shall conduct themselves by abiding by the following manners and principles so that society will trust and respect the University and its academic research.

Preamble

12

### Waseda University Charter for Academic Research Ethics 1, 2

1. Through academic research, all members of the University will help to solve common problems that individuals face in society, such as those relating to human welfare and world peace.
2. All members of the University will preserve human dignity, respect life, strive for harmony among people, society, and nature, protect the socially vulnerable, maintain the global environment, and positively work for the public interest.

13

### Waseda University Charter for Academic Research Ethics 3, 4

3. All members of the University will comply with international rules, domestic and foreign laws and regulations, University rules, the spirit of such rules, and social good sense. In addition, researchers will report their results in a timely and appropriate manner so that they can positively meet the demands of society.
4. During cooperative academic research activities, all members of the University will respect human rights, protect personal information, make efforts to prevent any kind of harassment and discrimination based on nationality, sex, age or any other characteristic, and consistently cooperate with others to prevent such behavior.

14

### Waseda University Charter for Academic Research Ethics 5, 6

5. All members of the University will help to ensure cooperation in society and will appropriately manage all academic research.
6. The University will strive to improve and maintain proper education and training in research ethics and the research environment while safely managing researchers so that no illegal activity occurs.

15

### Leaflets on Research Ethics

- Office of Research Ethics of Waseda Univ.  
– <http://www.waseda.jp/inst/ore/en/>
- Leaflets  
– Academic Research Ethics Guide  
– Conflict of Interest Management Guide

16

## IEEE Code of Ethics

- <http://www.ieee.org/about/corporate/governance/p7-8.html>
  - That is from IEEE Policies, Section 7 - Professional Activities (Part A - IEEE Policies)
- IEEE: The Institute of Electrical and Electronics Engineers
  - World largest community of electrical engineers and electronics engineers

17

## IEEE Code of Ethics --- Preamble

- We, the members of the IEEE, in recognition of the importance of our technologies in affecting the quality of life throughout the world, and in accepting a personal obligation to our profession, its members and the communities we serve, do hereby commit ourselves to the highest ethical and professional conduct and agree:

18

## IEEE Code of Ethics 1, 2

1. to accept responsibility in making decisions consistent with the safety, health, and welfare of the public, and to disclose promptly factors that might endanger the public or the environment;
2. to avoid real or perceived conflicts of interest whenever possible, and to disclose them to affected parties when they do exist;

19

## IEEE Code of Ethics 3, 4, 5

3. to be honest and realistic in stating claims or estimates based on available data;
4. to reject bribery in all its forms;
5. to improve the understanding of technology; its appropriate application, and potential consequences;

20

## IEEE Code of Ethics 6, 7

6. to maintain and improve our technical competence and to undertake technological tasks for others only if qualified by training or experience, or after full disclosure of pertinent limitations;
7. to seek, accept, and offer honest criticism of technical work, to acknowledge and correct errors, and to credit properly the contributions of others;

21

## IEEE Code of Ethics 8, 9, 10

8. to treat fairly all persons and to not engage in acts of discrimination based on race, religion, gender, disability, age, national origin, sexual orientation, gender identity, or gender expression;
9. to avoid injuring others, their property, reputation, or employment by false or malicious action;
10. to assist colleagues and co-workers in their professional development and to support them in following this code of ethics.

22

## Summary on Research Ethics

- Please do not violate research ethics
  - Do not do Plagiarism (剽窃) and refer correctly
  - Do not do Fabrication & falsification of data (捏造・偽造、歪曲)
  - Avoid Conflicts of Interest (利益相反)
- Please take "Introduction to Research Ethics"
  - Indispensable for doctor's degree
- Please follow Waseda University Charter for Academic Research Ethics

23

## Problem Examples in Waseda Univ. (No inclusion in hand-out)

- Mr. A. did plagiarism in his doctor's dissertation
  - His doctor's degree has been revoked
- Ms. O. wrote a doctor's dissertation based on incorrect data and did plagiarism
  - She used photographs modified by hand
  - She copied several pages from another paper
  - Her doctor's degree has been revoked with 1 year stay of execution

24

## Problem Example in the World

- 常温超伝導のねつ造 (Fabrication (Invention) on Room Temperature Superconductivity)
  - ベル研究所(米国)ヘンドリック・シェーン, 2000年サイエンス発表、2002年発覚 ; Jan Hendrik Schön at Bell Lab. (USA)
  - ネイチャー7件、サイエンス9件; 7 papers in Nature and 9 papers in Science

25

## Support for Dr. Students

- IPS Square (Scholarship, etc.)  
<https://www.waseda.jp/fsci/gips/campuslife/ipssquare/>
- Support for International Conference Presentation
  - Travel fee: 110,000 yen
  - Registration fee: 55,000 yen
  - \*For both travel and registration fees, the number of grants is twice during the year (once for departures from April to September, and once for October to next March)
- Support for Printing
  - 5,000 yen/year
  - Copy card, Fee to Academic Society (Registration fee of a meeting, Annual fee, Printing fee of a paper)

26

## その他:補助関係

- IPS Square (奨学金 (Scholarship)など)  
<https://www.waseda.jp/fsci/gips/campuslife/ipssquare/>
- 大学院生等海外派遣助成制度
  - 旅費: 110,000円
  - 国際会議論文発表登録料: 55,000円
  - ※旅費、登録料とも、助成回数は年度内で2回(4~9月出発分で1回、10月~翌3月分で1回)
- 複写代等補助
  - 5000円/年
  - コピーカード、学会経費(参加費、年会費、論文印刷)

27

# 科目履修届

## Application for Course Registration

4	4							CD	氏名/Name	総単位数/Total Credit
										2

科目コード Code	科目クラス コード	科目名 Subject Name	年度・学期 Year/Semester
9S91010002	02	研究倫理概論 /Introduction to Research Ethics	2020 冬クォーター/ Winter Quarter

※科目履修申請締切り: 2020年9月28日(月)17時

提出先: IPS 事務所

Deadline for course registration: **September 28<sup>th</sup>, 2020, 5PM**

Place of submission : IPS office

事務使用欄

受付	履修登録	履修登録確認