

Academic Transcript

Ju Li

MIT ID: 955 369 892 Birthdate: 25-APR-1975

Admitted as a Regular Student for Fall Term 1994-1995
from UNIV SCI & TECH OF CHINA
HEFEI, CHINA

Subject	Subject Name	Lvl	Cred	Grade

FALL TERM 1994-1995	COURSE:	22 M	GRADUATE STUDENT	
3.20	Thermodyn of Materials	H	12	A
8.333	Statistical Mechanics I	H	12	A
22.53	Statistical Processes	H	12	I/A

JANUARY TERM 1994-1995	COURSE:	22 M	GRADUATE STUDENT	
8.237	Neural Networks	N	6	A

SPRING TERM 1994-1995	COURSE:	22 M	GRADUATE STUDENT	
3.33	Defects in Crystals	H	12	A
8.334	Statistical Mechanics II	H	12	A
8.510	Group Theory-Phys:Solids	H	12	A
22.113	Nuc &Atomic Collision	H	12	A

FALL TERM 1995-1996	COURSE:	22 M	GRADUATE STUDENT	
8.321	Quantum Theory I	H	12	A
8.511	Theory of Solids I	H	12	A
10.610	Applied Quantum Mechanics	H	9	A
22.51	Interactns of Radiat w/Matter	H	12	A

SPRING TERM 1995-1996	COURSE:	22 M	GRADUATE STUDENT	
8.322	Quantum Theory II	H	12	A
8.323	Rel Quantum Field Th I	H	12	A
8.512	Theory of Solids II	H	12	A
8.575	Statist Thermo:Complex Liquids	H	12	A
18.445	Intro to Stochastic Process	H	12	A

SUMMER TERM 1996	COURSE:	22 M	GRADUATE STUDENT	
22.901	Spec Prob: Nuclear Eng	H	12	MG

FALL TERM 1996-1997	COURSE:	22 M	GRADUATE STUDENT	
2.083	Applied Elasticity	H	12	A
8.513	Condensed Matter Physics	H	12	A
18.338	Intro: Numerical Algorithms	H	12	A
18.385	Nonlinear Dynamics & Chaos	H	12	A

SPRING TERM 1996-1997	COURSE:	22 M	GRADUATE STUDENT	
8.962	General Relativity	H	12	A
10.52	Mechanics of Fluids	H	9	A
18.337	Parallel Scientific Computing	H	12	A
18.386	Adv Nonlinear Dynamics & Chaos	H	12	A

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Subject	Subject Name	Lvl	Cred	Grade

22.THG	Graduate Thesis	H	6	J/SA

SUMMER TERM 1997	COURSE:	22 D	GRADUATE STUDENT	
22.902	Spec Prob: Nuclear Eng	H	6	A
22.THG	Graduate Thesis	H	6	J/SA

FALL TERM 1997-1998	COURSE:	22 D	GRADUATE STUDENT	
2.306	Dislocations &Mech Prop:Solids	H	12	A
3.35	Fracture and Fatigue	H	12	A
18.305	Asymptotic Meths in Sci & Eng	H	12	A
18.335	Numerical Methods: Appl Math I	H	12	A
22.611	Intro to Plasma Physics I	H	12	A
22.911	Seminar in Nuclear Eng	G	3	P
22.THG	Graduate Thesis	H	3	J/SA

JANUARY TERM 1997-1998	COURSE:	22 D	GRADUATE STUDENT	
8.282	Intro:Astrophysics & Astronomy N	H	9	A

SPRING TERM 1997-1998	COURSE:	22 D	GRADUATE STUDENT	
2.302	Physics: Deformation of Solids	H	12	A
18.306	Advanced PDE with Applications	H	12	A
18.307	Integral Equations	H	12	A
22.612	Intro to Plasma Physics II	H	12	A
22.912	Seminar in Nuclear Eng	G	3	P
22.THG	Graduate Thesis	H	3	J/SA

SUMMER TERM 1998	COURSE:	22 D	GRADUATE STUDENT	
22.THG	Graduate Thesis	H	24	J/SA

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Order #: 000325330

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STUDENT: JU LI

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Mary R. Callahan, Registrar

Mary R. Callahan

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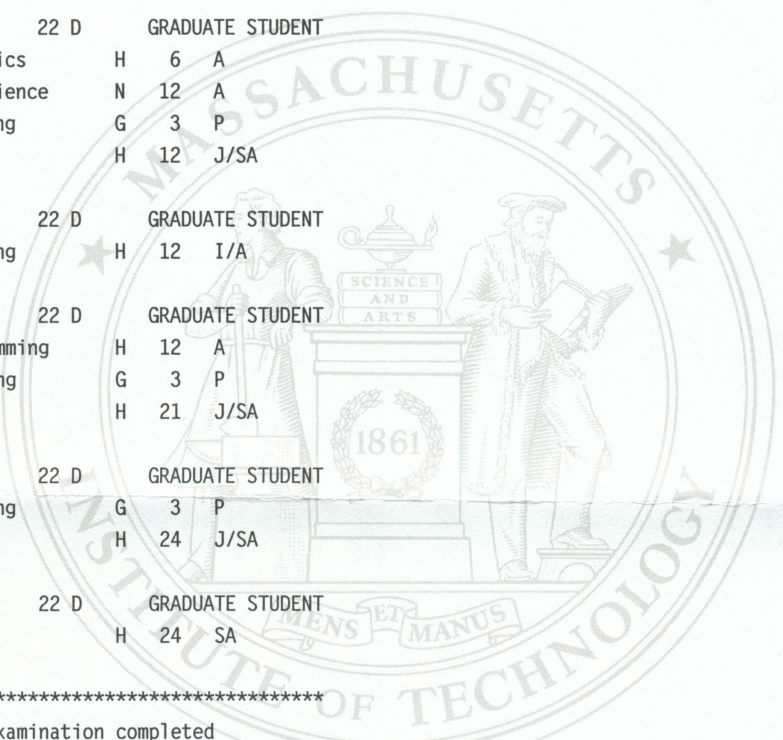
Academic Transcript

Ju Li

(Continued from page 1)

Subject	Subject Name	Lvl	Cred	Grade

FALL TERM 1998-1999	COURSE:	22 D	GRADUATE STUDENT	
18.336	Numerical Methods: App Math II	H	12	A
22.911	Seminar in Nuclear Eng	G	3	P
22.93	Teaching Experience: Nuc Eng	H	3	A
22.THG	Graduate Thesis	H	24	J/SA
* * *				
SPRING TERM 1998-1999	COURSE:	22 D	GRADUATE STUDENT	
15.061	Intermediate Statistics	H	6	A
18.062	Math For Computer Science	N	12	A
22.912	Seminar in Nuclear Eng	G	3	P
22.THG	Graduate Thesis	H	12	J/SA
* * *				
SUMMER TERM 1999	COURSE:	22 D	GRADUATE STUDENT	
22.904	Spec Prob: Nuclear Eng	H	12	I/A
* * *				
FALL TERM 1999-2000	COURSE:	22 D	GRADUATE STUDENT	
6.251	Intro to Math Programming	H	12	A
22.911	Seminar in Nuclear Eng	G	3	P
22.THG	Graduate Thesis	H	21	J/SA
* * *				
SPRING TERM 1999-2000	COURSE:	22 D	GRADUATE STUDENT	
22.912	Seminar in Nuclear Eng	G	3	P
22.THG	Graduate Thesis	H	24	J/SA
* * *				
SUMMER TERM 2000	COURSE:	22 D	GRADUATE STUDENT	
22.THG	Graduate Thesis	H	24	SA
* * *				



 01-DEC-1995 Doctoral General Examination completed
 20-SEP-2000 Awarded the Degree of Doctor of Philosophy;
 thesis in the field of Nuclear Engineering:
 Modeling Microstructural Effects on Deformation
 Resistance and Thermal Conductivity

OFFICIAL TRANSCRIPT: ISSUED 10-APR-2002
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Graduate Cumulative GPA: 5.0 (on a 5.0 scale)

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Mary R. Callahan

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Authentication of Transcript

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Academic Terms, Student Classification, and Courses

MIT's academic calendar has fifteen-week Fall and Spring Terms (including exams), a ten-week Summer Term, and a four-week January Term.

Classification: Undergraduate students (Freshman, Sophomore, Junior, Senior) and Graduate students are matriculated in MIT degree programs; Special students and Cross-registered students are not. Non-resident graduate students are working on doctoral thesis away from MIT.

The student's *Course* (degree program) begins with a department or program code as listed below, followed by an "option" within the department.

[Undergraduate program options can indicate specialty area, co-op program, etc. The following are some of the option codes used in graduate programs starting in Fall, 1994: M, P, or A, Master's; D, Doctoral; CT, Transportation; RE, Real Estate Development; W, Joint with Woods Hole Oceanographic Institution; etc.] Freshmen are not permitted to register in a department. Transfer students generally enter as Sophomores.

Subject, Level, Credit, and Grade

Subject: Consists of a department or program code (see list of codes below) followed by a period and a number. **Level (Lvl):** Subjects included in undergraduate cumulative record: **U**. Subjects included in graduate cumulative record: **H**, subject approved for (higher) graduate degree credit; **G**, other subject accepted for graduate degree credit; **N**, subject in graduate program but NOT accepted for graduate degree credit. **Credit:** A credit unit represents one hour of class (lecture/recitation), lab/design, or preparation per week for fourteen weeks. Three MIT credit units = one Semester Hour. **Grade:** See below.

Explanation of Grades since 1963

- A** Exceptionally good performance, demonstrating a superior understanding of the subject matter, a foundation of extensive knowledge, and a skillful use of concepts and/or materials. [Passed with Honor, prior to 1979.]
- B** Good performance, demonstrating capacity to use the appropriate concepts, a good understanding of the subject matter, and an ability to handle the problems and materials encountered in the subject. [Passed with Credit, prior to 1979.]
- C** Adequate performance, demonstrating an adequate understanding of the subject matter, an ability to handle relatively simple problems, and adequate preparation for moving on to more advanced work in the field. [Passed, prior to 1979.]
- D** Minimally acceptable performance, demonstrating at least partial familiarity with the subject matter and some capacity to deal with relatively simple problems, but also demonstrating deficiencies serious enough to make it inadvisable to proceed further in the field without additional work. [Barely Passed, prior to 1979.]
- F** Failed. [**E** Conditionally Failed, prior to October 1967.]
- J,U** **J** Satisfactory progress that term. **U** Progress not satisfactory that term. Final grade in same subject in a later term also covers this term (e.g., J/B or U/A).
- P** Prior to Fall, 1990: reflects performance at any of the levels A, B, C, or D. Fall, 1990 through Summer, 1992: for first-year undergraduates, reflects performance at any of the levels A, B or C; for other than freshmen, reflects performance at any of the levels A, B, C, or D. Fall, 1992 and after: reflects performance at any of the levels A, B, or C, with students graded on a P/D/F basis. [Originally recorded as grade of N prior to Fall, 1972.]
- I** Incomplete. When work completed, final grade follows I (e.g., I/B).
- O** Absent from the final examination and/or during the last two weeks of the term — equivalent to a grade of F.
- OX** Absence satisfactorily explained and excused. When work is completed, final grade replaces the OX.
- SA** Satisfactorily completed doctoral thesis.
- S** Credit awarded for work done elsewhere.
- URN** Subject in Undergraduate Research Opportunities Program taken for pay or as a volunteer rather than academic credit (the one unit shown does not count for degree credit).
- &** Grade ending in & indicates Advanced Standing Exam (not included in GPA).
- #** Grade ending in # indicates ROTC subject (not included in GPA after Summer, 1994 or in degree credit after Summer, 1972).
- MG** Indicates grade not submitted by instructor.
- IP** Indicates subject "in progress" in current term.

Freshman Grading

Fall, 1968 to Summer, 1973: Freshmen graded on P/F basis, with F grade recorded on transcript. Fall, 1973 to Summer, 1990: Freshmen graded on

P/F basis, with F grade not recorded on transcript. Fall, 1990 and after: Freshmen graded on P/D/F basis, with non-passing D and F grades not recorded on transcript.

Cumulative Grade Point Averages

Calculated on a 5.0 scale with A = 5, B = 4, C = 3, D = 2, F and O = 0. P, SA, S, URN, MG, and IP, as well as non-passing grades in Freshman year, not included in GPA. J, U, I, and OX grades not included in GPA until completed. Undergraduate Cumulative GPA includes subjects at Level U and Graduate Cumulative GPA includes subjects at Level H, G, and N, and up to a maximum of 24 units of thesis.

Department and Program Codes since 1963

- 1** Civil and Environmental Engineering (Civil Eng prior to Fall, 1992)
 - 2** Mechanical Engineering
 - 3** Materials Science and Engineering (Metallurgy and Materials Science prior to Spring, 1975; Metallurgy prior to Fall, 1967)
 - 4** Architecture
 - 5** Chemistry
 - 6** Electrical Engineering and Computer Science (Electrical Engineering prior to Spring, 1975)
 - 7** Biology (Life Sciences prior to Summer, 1963)
 - 8** Physics
 - 9** Brain and Cognitive Sciences (Psychology, 1964 through Spring, 1986)
 - 10** Chemical Engineering
 - 11** Urban Studies and Planning (City and Regional Planning prior to Summer, 1969; called 4B prior to Fall, 1966)
 - 12** Earth, Atmospheric, and Planetary Sciences (Earth & Planetary Sci prior to Fall, 1984; Geology & Geophysics prior to Summer, 1969)
 - 13** Ocean Engineering (Naval Architecture and Marine Engineering prior to Fall, 1971)
 - 14** Economics (Economics and Social Science prior to Fall, 1965)
 - 15** Management (Industrial Management prior to Fall, 1966)
 - 16** Aeronautics and Astronautics
 - 17** Political Science (from Fall, 1965)
 - 18** Mathematics
 - 19** Meteorology and Physical Oceanography (through Summer, 1983) (Meteorology through Summer, 1980)
 - 20** Program in Applied Biological Sciences (Applied Biological Sci prior to Fall, 1988; Nutrition and Food Science prior to Fall, 1984)
 - 21** Humanities
 - 21A** Anthropology (from Fall, 1996) (Anthropology/Archaeology, Summer, 1989 through Summer, 1998)
 - 21F** Foreign Languages and Literatures (from Summer, 1989)
 - 21H** History (from Summer, 1989)
 - 21L** Literature (from Summer, 1989)
 - 21M** Music and Theater Arts (from Summer, 1989)
 - 21W** Writing and Humanistic Studies (from Fall, 1991) (Writing Program from Summer, 1989)
 - 22** Nuclear Engineering
 - 23** Foreign Languages and Linguistics (prior to Fall, 1976) (Modern Languages & Linguistics prior to Summer, 1969; Modern Languages prior to Fall, 1964)
 - 24** Linguistics and Philosophy (from Fall, 1976) (Philosophy from Summer, 1971)
 - 25** Interdisciplinary Science (from Fall, 1972 to Spring, 1983)
 - BEH** Division of Bioengineering and Environmental Health (**TOX** from Spring 1989 through Summer, 1998)
 - CAES** Center for Advanced Educational Services (from Spring, 1996) (**EN**, Center for Advanced Engineering Study, 1964-1995)
 - CMS** Program in Comparative Media Studies (from Fall, 1999)
 - ESD** Engineering Systems Division (from Summer, 1999)
 - HPM** Health Policy and Management (1983-1990)
 - HST** Harvard-MIT Division of Health Sciences and Technology (from Spring, 1972)
 - MAS** Program in Media Arts and Sciences (from Spring, 1993)
 - OR** Operations Research
 - SDM** Systems Design and Management (from Summer, 1997)
 - STS** Program in Science, Technology, and Society (from Fall, 1980)
 - TPP** Technology and Policy Program (from Spring, 1998)
 - UND** Undesignated Sophomore (not yet declared Course)
- Used for subjects only:
- SEM** Undergraduate Seminar; **CTS** Center for Transportation Studies; **SP** Special Programs; **SRE** Division for Study and Research in Education. Subjects taken under a Cross-registration arrangement have department codes that begin as follows: **BU** Boston U; **HA** Harvard U; **MC** Massachusetts College of Art; **SM** School of Museum of Fine Arts; **TU** Tufts U; **W** Wellesley College.

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SORTED LIST

Applied Math:

- 6.251 Introduction to Mathematical Programming
- 15.061 Intermediate Statistics
- 18.062J Mathematics for Computer Science
- 18.305 Asymptotic Methods in Science and Engineering
- 18.306 Advanced Partial Differential Equations with Applications
- 18.307 Integral Equations
- 18.338J Introduction to Numerical Algorithms
- 18.335J, 18.336 Numerical Methods of Applied Mathematics I, II
- 18.337J Parallel Scientific Computing
- 18.385, 18.386 Nonlinear Dynamics and Chaos I, II
- 18.445 Introduction to Stochastic Processes

Physics:

- 8.237 Neural Networks, Simulated Annealing, and Phase Transition Models
- 8.282 Introduction to Astrophysics and Astronomy
- 8.321, 8.322 Quantum Theory I, II
- 8.323 Relativistic Quantum Field Theory I
- 8.333, 8.334 Statistical Mechanics I, II
- 8.510J Application of Group Theory to the Physics of Solids
- 8.511, 8.512 Theory of Solids I, II
- 8.513 Many-body Techniques in Condensed Matter Physics
- 8.575J Statistical Thermodynamics of Complex Liquids
- 8.962 General Relativity
- 22.51 Interactions of Radiation with Matter
- 22.113 Nuclear and Atomic Collision Phenomena
- 22.611J, 22.612J Introduction to Plasma Physics I, II

Mechanics and Materials:

- 2.083 Applied Elasticity
- 2.302 Physics of Inelastic Deformation of Solids
- 2.306 Dislocations and Mechanical Properties of Crystalline Solids
- 3.20 Thermodynamics of Materials
- 3.33 Defects in Crystals
- 3.35 Fracture and Fatigue
- 10.52 Mechanics of Fluids
- 10.610 Applied Quantum Mechanics (Quantum Chemistry)
- 22.53 Statistical Processes and Atomistic Simulations
- 22.901-22.904 Special Problems in Nuclear Engineering
- 22.911, 22.912 Seminar in Nuclear Engineering
- 22.93 Teaching Experience in Nuclear Engineering
- 22.ThG Graduate Thesis