

KECK GRADUATE INSTITUTE
and
CLAREMONT GRADUATE UNIVERSITY
JOINT PhD PROGRAM
in
COMPUTATIONAL & SYSTEMS BIOLOGY
GRADUATE STUDENT HANDBOOK



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INTRODUCTION

Computational and Systems Biology examines biological systems through mathematical analysis, numerical simulation, data collection, refinement and improvement of models based on comparison with experimental data and the development of theories to enhance our understanding of biological systems. Fields of modern genetics (including genomics and proteomics) and molecular and cell biology are the current focus of research in systems biology.

Myriad computational tools including deterministic and stochastic modeling, Monte Carlo simulations, data mining and data analysis are needed in approaching these problems. Applied mathematical topics including nonlinear dynamical systems (discrete and continuous), partial differential equations, probability and statistics, linear algebra, network theory, numerical analysis, control theory, asymptotic and perturbation methods provide some of the fundamental tools needed to carry out the requisite modeling and analysis.

The PhD program in Computational and Systems Biology will train scientists, mathematicians, engineers, and quantitative biologists in modern approaches in the life sciences. A combination of coursework, independent study, optional laboratory rotations and individual mentoring will provide a strong grounding in biology and genomics as well as in mathematical methods needed for modeling and computational work.

This Graduate Student Handbook for the program contains important information about the mechanics of the program. Students enrolled in the program are encouraged to read the handbook carefully and especially to be aware of the important milestones leading to successful completion of the program.

A. GENERAL INFORMATION

Degree Designation

The degree shall be designated as a *Doctor of Philosophy in Computational and Systems Biology* degree and shall be granted jointly by Claremont Graduate University (CGU) and Keck Graduate Institute (KGI). The diploma shall specify that the degree is being granted only when requirements have been satisfied as specified by both CGU and KGI.

It is expected that the student will complete all degree requirements, including appropriate coursework, advancement to candidacy, submission of the Dissertation, and oral defense of the Dissertation within approximately five years of admittance to the program.

Program Supervision and Administration

Overall program supervision will be the joint responsibility of a graduate faculty group at CGU and KGI. A Program Coordinator who is a member of the faculty, will be appointed at each campus. The two Program Coordinators, with a PhD Steering Committee will oversee the operation of the program, advise students, appoint preliminary advisors and recommend

appointments to Doctoral Committees.

Keck Graduate Institute will be the primary administrative office. KGI will process forms for advancement to candidacy, check program requirements, conduct formal dissertation review services, and send notices to students. All this will be done in concert with appropriate units at CGU.

Admissions requirements

Students interested in applying to the Joint PhD in Computational and Systems Biology **MUST** first make an inquiry with the Office of Admissions at admissions@kgi.edu or call (909) 607-8590. Students must complete a formal paper application in order to be considered for admission.

Applications will be processed by the KGI Office of Admissions. Admission is highly selective and therefore applications should be submitted as early as possible.

An Admissions Committee consisting of faculty members from both institutions will review applications. The admissions review process may include personal interviews of applicants.

To be admitted to the PhD Program, an applicant must have:

- A baccalaureate degree in mathematics, or a scientific or engineering discipline from an accredited institution. Applications from outstanding candidates with degrees in other areas may be accepted conditionally; normally, these students will be expected to take, during their first year of enrollment, the necessary coursework to eliminate deficiencies in their backgrounds.
- An undergraduate Grade Point Average of at least 3.0, and of at least 3.5 in any previous graduate work, for the application to be competitive.
- Suitable scores on the Graduate Record Examination (GRE), with acceptable performance in the Verbal and Quantitative sections.
- Written and spoken proficiency in English.

The applicant must, in addition, have attained such a scholastic record and present such confidential recommendations as to indicate that he or she is well qualified to pursue, with distinction, advanced study and research. In accordance with applicable deadlines, the applicant must submit:

- The appropriate application forms;
- Transcripts of **all** post-secondary coursework;
- Three letters of recommendation from current or former professors, supervisors, or other appropriate persons;
- A statement of purpose, explaining their interest in the program;
- Results of the GRE;
- Results of TOEFL for international students.

Program Planning

Upon admittance, each student will be assigned a Faculty Mentor from either institution. The mentors will be initially appointed by the Program Coordinators. After one year of study with favorable progress, the student will select a Doctoral Advisor (from either CGU or KGI) and at least two other persons, one from each campus, to serve on a three-person Doctoral Committee.

During the first year, and before the student selects his/her Doctoral Advisor, the student is strongly encouraged to carry out short-term research work with a number of faculty participants in the program. These short-term projects will comprise the optional “research rotation” component of the program.

The selection of the Doctoral Advisor and the Doctoral Committee must be approved by the two Program Coordinators and by the CGU Dean of Mathematical Sciences and the KGI Dean of Faculty. Additional Doctoral Committee members may include scientists from an outside institution, such as a national laboratory, industry or another accredited university. The Doctoral Committee will then function as the student’s official advising unit. The members of this committee will develop a suitable course of study in consultation with the student, administer the Qualifying Exam, monitor research progress, and administer the student’s Final Exam (Doctoral Dissertation Defense). Any member of the Doctoral Committee, including the Faculty Mentor and Doctoral Advisor, may be replaced if requested by either the student or the member, and with agreement of the appropriate Program Coordinator and the Deans.

Good Academic Standing

A student enrolled in the joint program **must maintain a cumulative Grade Point Average (GPA) of at least 3.0 (B) to stay in good academic standing.** Failure to maintain the required GPA may result in academic probation for a semester followed by termination from the program if the student fails to bring his/her GPA up to an acceptable level.

Student Support

Students will be supported in the first year of study through research grants, traineeships and institutional scholarships. Every attempt will be made to support all students through tuition waivers and living stipends. Funding is contingent on the student’s continuing satisfactory progress through the program milestones. It is expected that students beyond the first year of study who are associated with a faculty research group will have stipends and tuition supported from research grants. Students will be expected to devote 100% of their effort to the program and may not accept additional work assignments beyond the scope of the general degree requirements and PhD research projects, unless specifically authorized to do so by their thesis committees. PhD students may be encouraged to take on teaching assistantships or research supervisory roles from time to time, but teaching or supervising students will not be a formal requirement.

B. COURSEWORK

The program consists of a **minimum of 72 units** of coursework. Since the unit accounting system is different at each institution, a full KGI course will count as 4 units for this purpose, and half KGI courses will count as 2 units. These 72 units must be distributed as follows:

Minimum 48 graduate units divided evenly between the curricula of KGI and CGU School of Mathematical Sciences.

Minimum 24 total units of Research, Independent Study, Dissertation and Graduate Seminars at either institution.

On approval of the Doctoral Committee and the Deans of the CGU School of Mathematical Sciences and Keck Graduate Institute, students may transfer up to 24 units of related graduate-level coursework towards the 72 unit requirement. This coursework must have been completed with at least a grade of B or its equivalent. Certain CGU Botany and Information Science courses may count toward course requirements with permission as well.

In addition to the above courses, students are required to participate in a two-unit (half-course) current topics seminar (ALS 501), designed to encourage in-depth reading of primary literature related to the student's thesis research and to increase knowledge of topics of high general interest. During their tenure in the program, students will present and discuss at least four original papers selected by the faculty and will participate in the presentations of other students. It is obligatory for students to participate in this seminar series while they are in the program. These seminars are open not only to students and faculty, but also to the KGI and CGU research communities. Incorporated within the series are seminars dedicated to the ethical conduct of research. These seminars follow the guidelines published by the National Institutes of Health.

Students should check the schedule of classes at both institutions each semester to come up with a suitable list of courses. Class schedules and course descriptions are accessible on each institution's website: www.cgu.edu/math and <http://www.kgi.edu/Prospective-Students/MBS-Curriculum.html>.

C. RESEARCH

Qualifying Examination

The student is expected to pass the Qualifying Exam within 2 years of admittance. This examination shall consist of a term research project supervised by the Faculty Mentor. The student will be required to prepare a written account of research work performed and its results, and offer an oral presentation before the members of the Doctoral Committee. If the student fails all or part of this Qualifying Exam, he/she may request to address the committee's concerns a second time. The student will normally be terminated from the program upon failure to pass the Qualifying Exam on a second attempt.

Doctoral Research

Dissertation research will be carried out at either CGU or KGI, or at an industry or national laboratory under the supervision of the program faculty.

Fall Research Retreat and Progress Reports

Each year PhD students are required to participate in the Annual Fall Research Retreat. Students in the first PhD year are merely required to attend, while students in their second and subsequent years present annual progress reports to be evaluated and approved by their thesis committees. The research retreats foster communication among students and faculty, aid the development of interdisciplinary ties and the creation of a strong research community.

Dissertation Proposal and Advancement to Candidacy

The student is expected to submit a Dissertation Proposal to the Doctoral Committee no later than upon completion of the student's third academic year in the program. The Proposal should take the form of a scientific grant proposal to a major funding agency. It should describe the research project that the student intends to carry out on which his/her Doctoral Dissertation will be based. The student must also offer an oral presentation of the Proposal before the Doctoral Committee. Upon successful completion of this presentation, the student will be recommended for Advancement to Candidacy for the Doctoral Degree.

Doctoral Dissertation and Final Oral Examination

On completion of the Dissertation research work, the candidate will submit and present a public oral defense of his/her Dissertation to the Doctoral Committee. A final draft of the written Dissertation will be presented to each member of the Doctoral Committee at least three weeks prior to the final oral examination. Following the presentation, the Doctoral Committee will deliberate on the quality of the Dissertation and make a recommendation to the Deans to either pass, fail or pass conditional upon certain changes to the Dissertation.

D. IMPORTANT MILESTONES

Semester prior to admittance

Student prepares formal application along with supporting documents as outlined in the Admission Requirements section. An application form is included at the end of this handbook or may be downloaded from the KGI website. Application is submitted to KGI. All questions about the status of the application should be addressed to the Program Coordinators. The coordinators will direct the queries to appropriate administrative units at KGI, if necessary.

Beginning of Semester 1

Student meets with Program Coordinators who then assign a Faculty Mentor to monitor and advise the student. Student selects appropriate courses at CGU/KGI in consultation with the Faculty Mentor and begins coursework. At this time, the student also petitions the Program

Coordinators for transfer of appropriate credits from previous institutions, if applicable. The student is strongly encouraged to take part in a “research rotation” before selecting his/her doctoral advisor. *International students must provide proof of full-time registration in order to maintain legal immigration status.*

By end of Year 1

Student selects Doctoral Advisor and at least two other persons, one from each institution to serve on a three-member Doctoral Committee. The appropriate form, included in this handbook or downloadable from the KGI website, must be filed at KGI.

By end of Year 2

Student passes Qualifying Exam consisting of term research project supervised by Faculty Mentor/Doctoral Advisor. The Doctoral Committee will sign the appropriate form, included in this handbook or downloadable from the KGI website, stating that the student has passed the Qualifying Exam.

By end of Year 3

Dissertation Proposal submitted to Doctoral Committee. Successful oral presentation of the proposal results in Advancement to Candidacy. The appropriate form, included in this handbook or downloadable from the KGI website, for Advancement to Candidacy must be filed at KGI.

By end of Year 4

Committee monitors progress of the student’s independent research and recommends path to a realistic thesis by year 5. The student, however, can progress to thesis defense in year 4 if deemed appropriate by the thesis committee (see year 5 milestone).

By end of Year 5

Final Doctoral Dissertation submitted to Doctoral Committee at least 3 weeks prior to date of Oral Defense. The student is responsible for arranging a suitable Oral Defense date with members of his/her Doctoral Committee. Form is included in this handbook or downloadable from the KGI website.

After Year 5

The Doctoral committee will evaluate the student’s progress every six months.

E. PROGRAM POLICIES

1. Students will register for all courses at KGI. Students who intend not to take courses at either institution, including those who have finished their course requirements, must take the necessary steps to maintain continuous enrollment. **This is achieved by registering for ALS 502 Doctoral Research and ALS 501, the current topics seminar series.**
2. Requests for leaves of absence must be submitted to the KGI Registrar’s Office and approved by both institutions. Upon approval of leave, the student must advise KGI and the School of Mathematical Sciences at CGU or risk being dropped from the program.

3. International students must provide the KGI International Student Advisor with proof of registration within two weeks of the beginning of the semester. Proof of full-time registration is required to maintain immigration status.
4. Students should arrange for a Faculty Mentor, from either Mathematical Sciences at CGU or KGI, at the earliest opportunity. The program coordinators will help provide Faculty Mentors.
5. After consultation with their mentors, students must submit a plan of study, including a petition for transfer of credits, if applicable, during their first year of study. The plan of study must be approved and transfer of units recommended to the KGI Registrar by the Program Coordinators. The **Transfer of Units (Credits)** form is downloadable from the KGI website or can be found on the CGU website. Go to www.cgu.edu, click on Prospective Students → Records → Transfer units.
6. Students admitted to provisional status must provide the materials needed to complete their files before the end of their first semester of enrollment. Official scores for the GRE General Test are required of all students before admission to full graduate standing. The admissions committee will review completed files for change of status.
7. The academic progress of students admitted to conditional status will be reviewed by the admissions committee prior to a decision about change of status.

JOINT DOCTORAL PROGRAM APPLICATION PROCEDURES

How to Apply

Students interested in applying to the Joint PhD in Computational and Systems Biology **MUST** first make an inquiry with the Office of Admissions at admissions@kgi.edu or call (909) 607-8590.

Students must complete a formal paper application in order to be considered for admission. The KGI Office of Admissions will process all applications.

Application Form

Download a printable version of the form from www.kgi.edu and complete and mail it to:

Office of Admissions
Keck Graduate Institute
535 Watson Drive
Claremont, CA 91711
ATTN: PHD Admissions

Application Fee

Our non-refundable application fee is \$75. A check payable to Keck Graduate Institute must accompany your application. Please be sure your name appears on the check.

Application Deadlines

All applicants are encouraged to submit complete applications by March 1; however, applications are evaluated year-long on a rolling basis.

Transcripts

An official transcript must be submitted for *every* institution of higher education that you have attended. Transcripts must be sealed and bear the original seal of the issuing institution in order to be considered official. If transcripts are not in English, an authorized and complete English translation must also be provided.

Recommendations

Request letters of recommendation from three people who can evaluate your qualifications and potential for success in an interdisciplinary research program. We prefer that at least two of your recommenders be professors with whom you have worked closely. The third can be from an employment supervisor who is in a position to evaluate your work. The Office of

Admissions will also accept letters submitted from a central recommendations service at your college. Recommenders should send letters directly to the Office of Admissions. Letters received directly from a student should be sealed and have the recommender's signature across the flap of the envelope.

Admissions Tests

We require the Graduate Record Examination (GRE) General Test for admission.

If you received your undergraduate degree from a university where English is not the primary language of instruction, or have studied fewer than three years at a university where instruction is in English, you must take the Test of English as a Foreign Language (TOEFL). Our GRE and TOEFL school code is 4166.

Personal Statement

The Personal Statement gives you an opportunity to demonstrate your potential for making contributions in the biosciences, and to bring to the attention of the Admissions Committee other significant matters. You are encouraged to delve into technical matters related to your intended research area in this statement. In addition, this statement may describe your career objectives. How will this PhD help you achieve your professional and personal goals?

Supplemental Materials

You may send additional supporting documents with your application. However, they will not be returned unless you enclose a self-addressed postage paid envelope.

Where to Send Application Materials

Office of Admissions
Keck Graduate Institute
535 Watson Drive
Claremont, CA 91711
ATTN: PHD Admissions

Questions?

Contact the Office of Admissions at:
(909) 607-8590 or admissions@kgi.edu.

KECK GRADUATE INSTITUTE
APPLICATION FOR ADMISSION



PROGRAM APPLYING FOR:

JOINT CGU-KGI PHD IN COMPUTATIONAL AND SYSTEMS BIOLOGY

YEAR OF ENROLLMENT 201__

PERSONAL INFORMATION

Last Name (Family or Surname)		First		Middle	
Preferred First Name					
CURRENT Street Address 1				Apartment/Unit	
Street Address 2					
City		State		Zip or Postal Code	
Country (if not USA)			Address Valid Through Date (MM/DD/YY)		
PERMANENT Street Address 1				Apartment/Unit #	
Street Address 2					
City		State		Zip or Postal Code	
Country (if not USA)			Gender (Male or Female)		
Permanent Phone			Cell Phone		
Preferred Email			Secondary Email		
Birth Date (MM/DD/YY)		Birth Place (City, State, Country)			
Year Graduated High School		Hometown (City, State, Country)			

CITIZENSHIP

Are you a citizen or permanent resident of the United States?	YES <input type="checkbox"/>	NO <input type="checkbox"/>	U.S. Social Security Number (U.S. citizens and permanent residents only)	
If you are not a United States citizen, please state country of citizenship		Visa Type (International students only, if applicable)		

EDUCATION (Please list all colleges & universities attended, even if you did not graduate from that school)

College/University 1		Location	
Major & Degree (Ex. Biology, BS)		Graduation Date	
College/University 2		Location	
Major & Degree		Graduation Date	
College/University 3		Location	
Major & Degree		Graduation Date	

REFERENCES									
1. Name					Relation to you				
University/Company					Phone		()		
Mailing address									
Email Address									
2. Name					Relation to you				
University/Company					Phone		()		
Mailing address									
Email Address									
3. Name					Relation to you				
University/Company					Phone		()		
Mailing address									
Email Address									
ADMISSIONS TESTS									
GRE									
Date Taken Or Future Test Date		Overall Score		Verbal		Quantitative		Analytical	
Date Taken Or Future Test Date		Overall Score		Verbal		Quantitative		Analytical	
TOEFL (FOR INTERNATIONAL STUDENTS ONLY)									
Date Taken Or Future Test Date		Overall Score							

RESUME
Please attach a resume including relevant employment history, research experience, and leadership activities.
PERSONAL STATEMENT - ESSAY
The Personal Statement gives you an opportunity to describe your career objectives. How will the PhD in Computational and Systems Biology help you achieve your professional and personal goals? You may also use the personal statement to demonstrate your potential for making contributions in the biosciences, and to bring to the attention of the Admissions Committee other significant matters. Please limit your response to THREE double-spaced typed pages.
RESEARCH AND WORK EXPERIENCE – SHORT ANSWER
Please describe any relevant undergraduate, graduate, or summer research experience.
TECHNICAL SKILLS – SHORT ANSWER
What technical skills (including laboratory), computer programming and math skills do you possess?
HOW DID YOU LEARN ABOUT THE CGU-KGI JOINT PHD PROGRAM IN COMPUTATIONAL AND SYSTEMS BIOLOGY?
TO WHAT OTHER GRADUATE SCHOOLS ARE YOU APPLYING? PLEASE INCLUDE PROGRAM & DEGREE (OPTIONAL)
KGI AND CGU ARE COMMITTED TO ENROLLING A HETEROGENEOUS STUDENT BASED ON MANY FACTORS. IF YOU WOULD LIKE TO IDENTIFY YOURSELF ON THE BASIS OF RACE OR ETHNICITY PLEASE CHECK THE APPROPRIATE BOX (CHECK ALL THAT APPLY)
<input type="checkbox"/> American Indian, Or Alaska Native (Tribal Affiliation _____) <input type="checkbox"/> African-American, Non-Hispanic <input type="checkbox"/> Asian <input type="checkbox"/> Hispanic Or Latino <input type="checkbox"/> Native Hawaiian Or Pacific Islander <input type="checkbox"/> White Or Caucasian <input type="checkbox"/> Other Or Mixed Race/Ethnicity <input type="checkbox"/> Decline To State

CERTIFICATION			
<ul style="list-style-type: none"> • I understand that if I have graduated from the MBS program within the last 5 years, the confidential information contained in my MBS student file will be transferred to my PhD student file. • I certify that I have provided complete and accurate statements on this application. I understand that failure to list all colleges attended or falsifying official documents may result in denial of admission or disciplinary action. • I understand that any other omissions of fact, misrepresentations or false statements, a decline in academic performance, or actions that bring to bear issues of moral character may result in the revocation of an offer of admission at any time, including the period prior to matriculation. • I understand that all official documents submitted in support of this application become the property of Keck Graduate Institute. Further, to the best of my knowledge, all official documents that pertain to me are authentic and unaltered. • I have been informed that my application fee of \$75 is nonrefundable. I authorize the release of any information submitted by me in connection with this application to any person, firm or corporation, association, or government agency, but only to verify or explain the information. 			
Signature		Date	

Keck Graduate Institute does not discriminate on the basis of race, color, sex, sexual orientation, age, marital status, religion, disability, national origin, ethnic origin, or prior military service in any of its policies, procedures and practices, including admission policies, educational policies, fellowship and loan programs, employment policies and other Institute-administered programs and activities.

**NOMINATION OF THE DOCTORAL DISSERTATION COMMITTEE FOR THE DEGREE OF
DOCTOR OF PHILOSOPHY IN COMPUTATIONAL & SYSTEMS BIOLOGY**

Student Name: _____
Last First MI KGI ID Number

Student Address: _____

The student named has established eligibility for the nomination of a dissertation committee. Proposed title of dissertation:

The following persons, who have agreed to serve, are nominated as the Doctoral Committee:

Faculty Name	Signature	Department	Institution
_____	_____	_____	_____
Chair			
_____	_____	_____	_____
Committee Member			
_____	_____	_____	_____
Committee Member			
_____	_____	_____	_____
Committee Member			
_____	_____	_____	_____
Committee Member			

Approval

PhD Program Coordinator, KGI Date PhD Program Coordinator, CGU Date

Dean of Students, KGI Date Dean of Mathematical Sciences, CGU Date

Distribution: KGI Dean of Students CGU Dean of Students CGU SMS Department Chair Student

Revised 1/8/10 JDP 1

REPORT OF THE QUALIFYING EXAMINATION FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN COMPUTATIONAL & SYSTEMS BIOLOGY

Student Name: _____
 Last First MI KGI ID Number

Student Address: _____

The members of the Joint Doctoral Committee for the Qualifying Examination report that the candidate has completed all pre-dissertation requirements in the major and taken the examination on: _____
 Date

Faculty Name	Signature	Department	Institution	Approval of Qualifications	
_____	_____	_____	_____	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Chair					
_____	_____	_____	_____	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Committee Member					
_____	_____	_____	_____	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Committee Member					
_____	_____	_____	_____	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Committee Member					
_____	_____	_____	_____	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Committee Member					

Approval

The candidate has passed the Qualifying Exam towards the doctoral degree in computational and systems biology.

 PhD Program Coordinator, KGI Date

 PhD Program Coordinator, CGU Date

 Student Signature Date

 Dean of Students, KGI Date

 Dean of Mathematical Sciences, CGU Date

Distribution: KGI Dean of Students CGU Dean of Students CGU SMS Department Chair Student

REPORT OF THE ADVANCEMENT TO CANDIDACY EXAMINATION FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN COMPUTATIONAL & SYSTEMS BIOLOGY

Student Name: _____
 Last First MI KGI ID Number

Student Address: _____

The members of the Joint Doctoral Committee for the Candidacy Examination report that the candidate has completed all pre-dissertation requirements in the major and taken the examination on: _____
 Date

Faculty Name	Signature	Department	Institution	Approval of Qualifications	
_____	_____	_____	_____	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Chair					
_____	_____	_____	_____	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Committee Member					
_____	_____	_____	_____	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Committee Member					
_____	_____	_____	_____	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Committee Member					
_____	_____	_____	_____	<input type="checkbox"/> Yes	<input type="checkbox"/> No
Committee Member					

Approval

The Committee recommends advancement to candidacy for the Degree of Doctor of Philosophy in Computational & Systems Biology.

 PhD Program Coordinator, KGI Date PhD Program Coordinator, CGU Date

I request advancement to candidacy. I plan to complete my dissertation by: _____

 Student Signature Date

 Dean of Students, KGI Date Dean of Mathematical Sciences, CGU Date

Distribution: KGI Dean of Students CGU Dean of Students CGU SMS Department Chair Student

**REPORT OF THE THESIS DEFENSE FOR THE DEGREE OF DOCTOR OF PHILOSOPHY IN
COMPUTATIONAL & SYSTEMS BIOLOGY**

Student Name: _____
Last First MI KGI ID Number

Student Address: _____

Faculty Name	Signature	Approved for Degree
_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
Chair		
_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
Committee Member		
_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
Committee Member		
_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
Committee Member		
_____	_____	<input type="checkbox"/> Yes <input type="checkbox"/> No
Committee Member		

The final examination and dissertation are Unanimously Not unanimously **approved, and the candidate is**
Recommended Not recommended **for the award of the degree of Doctor of Philosophy in Computational & Systems Biology.**

PhD Program Coordinator, KGI Date PhD Program Coordinator, CGU Date

Dissertation Title: _____

Conferral of Degree is recommended as of: _____

Dean of Students, KGI Date Dean of Mathematical Sciences, CGU Date

Distribution: KGI Dean of Students CGU Dean of Students CGU SMS Department Chair Student

G. CONTACT INFORMATION

Admissions

Office of Admissions
Keck Graduate Institute
535 Watson Drive, Claremont, CA 91711
Tel: (909) 607-8590, Email: admissions@kgi.edu

Program Coordinators

Professor Ali Nadim (CGU program coordinator)
CGU Office: School of Mathematical Sciences North
736 N. College Avenue, Claremont, CA 91711
Tel: 909-607-9413, Email: ali.nadim@cgu.edu

KGI Office: 517 Watson Drive, Claremont, CA 91711
Tel: 909-607-9650
Email: Ali_Nadim@kgi.edu

Professor Animesh Ray (KGI program coordinator)
535 Watson Drive, Claremont, CA 91711
Tel: 909-607-9729
Email: Animesh_Ray@kgi.edu

Registration and International Student Advising

Eva Peters, Registrar and International Student Advisor
535 Watson Drive, Claremont, CA 91711
Tel: 909-607-9649
Email: Eva_Peters@kgi.edu