Northeast Parallel Architectures Center (NPAC) Graduate Student Agreement Form

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Date:

AUG/26/97

Name:

Sung-Hoon Ko 

Mailing Address:

116 Remington Ave. APT D

Syracuse, NY 13210

Email address:

shko@npac.syr.edu, shko@top.cis.syr.edu

Gender:

Male

Citizenship:

(eg US National, Indian, Chinese, Polish, German, Egyptian, Turkish, Scottish, Australian...)

Korean

Visa Status:

(eg J1, H1,..., US National)

F1

SU Academic Department affiliation:

(eg Physics, CIS,...)

CIS

Degrees earned:

(Name of Institution and Date awarded)

BS: Mathematics, Han-Yang University, Seoul, Korea, Feb 1985.

MS: CIS, Syracuse University, Syracuse, U.S.A, May 1993.

Current Academic Status at SU:

(eg doing masters, doing PhD)

doing PhD

Date Course Work Started:

Sep, 1993

Anticipated Comprehensive Examination Date:

Sep, 1997

Anticipated PhD graduation Date:

MAY, 1998

Total Number of Tuition Hours to Complete Current Degree:

0

Number of Tuition Hours needed for Fall:

0

Number of Tuition Hours needed for Spring:

0

Number of Tuition Hours needed for Summer:

0

Name of NPAC Project leader:

(the NPAC person mainly associated with you and your work)

Bryan Carpenter

Full Name of Academic Advisor:

Geoffrey Fox

Bryan Carpenter

Paul Coddington

Full Name of Thesis/Dissertation Director:

Geoffrey Fox

Paul Coddington

Full Names of Thesis/Dissertation Committee Members:

Geoffrey Fox

Paul Coddington

Ernest Sibert

Alan Middleton (Physics)

List all Completed SU Courses and Grade Earned:

SPRING/1997

Dissertation CIS 999

FALL/1996

Dissertation CIS 999

SPRING/1996

Dissertation CIS 999

FALL/1995

Dissertation CIS 999

SPRING/1995

Independent Study(with Paul Coddington)

Dissertation CIS 999

FALL/1994

Parallel Computing CIS 710 A

Data Parallel Computing CIS 712 A-

Independent Study(with Paul Coddington) A

SPRING/1994

Parallel Processing Systems CSE 763 A

Numerical Linear Algebra MAT 682 A-

Independent Study(with Paul Coddington)

FALL/1993

Computational Science(Software/Algorithms) CPS500 A-

Computer Architecture CIS 655 B+

Independent Study(with Paul Coddington)

SPRING/1993

TOPICS:Computational Science CPS 700 A-

Object-Oriented Prog. & C++ CIS 500 A

FALL/1992

INTR/Computational Science CPS 615 A

Analysis of Algorithms CIS 675 B+

ENGR DES/Operating System CSE 585 B+

SPRING/1992

Compiler Design CIS 631 A-

Semantics,PRGMNG & VRFCTN CIS 623 A-

INTRO Artificial Intelligence CIS561 B+

FALL/1991

Formal Languages CIS 637 A

Concrete Math./COMP SCI CIS 622 B+

FNDMNTLS/COMP.SCI.MATH CIS 521 A-

List all SU Courses you EXPECT to Take:

none

List your PhD Reading List (if applicable):

A Primer for the Monte Carlo Method, Ilya M. Sobol'

Solving Problems on Concurrent Processors, Geoffrey Fox

Introduction to Parallel Computing, Vipin Kumar

Seminumerical Algorithms, Knuth

Computer Simulation Method, Gould

Monte Carlo Simulation in Statistical Physics, Binder

Papers related to random number generators and Monte Carlo methods.

Dissertation Topic / Title: (State whether this a Masters or Thesis Dissertation)

Parallel Monte Carlo simulation using parallel HPF Rnadom Number Gnerators. : Thesis Dissertation.

Career Goals:

(Please specify: Type of position sought eg computer applications area or computer development area; type of environment sought eg academia, research lab, industry and location eg USA, home country or other country)

Computer applications area in research lab or industry in Korea.

Areas of your specialization:

(eg software, hardware, systems, algorithms, more detail if possible...indicate what you are good at and interested in)

Parallel random number generators.

HPF applications

Mote Carlo simulation.

Parallel I/O.

Project assignments:

(Describe any special duties that you have outside thesis work that are currently assigned to you, eg Mosaic, HPFA, foils developement, software development for parallel systems, please give as much detail as possible...)

DEvelop HPF random number generator in run-time library(PCRC)

Writing a hypertext "roadmap" for random number generators, with software for good sequential and parallel random number generators.

Develop Random Number Generator Testor.

On what NPAC Main project(s) are you currently working:

PCRC

The National HPCC Software Exchange Project

Parallel Random number Generators for HPF.

HPF applications.

On what NPAC Service activities are you currently working:

List other NPAC activities you have worked on in the past which are not covered above:

Prallel Wolff Cluster Algorithms.

(Int J Mod Phys C) (NPAC Technical Reports SCCS-619)

Type of research you expect to be working on for the next semester:

(describe giving as much detail as possible)

Develop runtime library for HPF randon number generator and connected component labeling.

The National HPCC Software Exchange Project

Random number Generators.

High Performance Fortran applications.

Any expected absences during the academic year:

(please describe reason and give dates where possible)

Approvals:

(Take the printed form to these people for their signatures)

NPAC Project Leader:

Bryan Carpenter

Thesis Dissertation Director:

Geoffrey Fox

Paul Coddington

Academic Advisor:

Geoffrey Fox

Bryan Carpenter

NPAC Director:

Geoffrey Fox

Please keep this online form up to date. (It is suggested you review it every month or so).