

Grace Hyun J. Kim

CURRICULUM VITAE

PERSONAL HISTORY:

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EDUCATION:

B.S.	Ewha Woman's University, Seoul, Korea, 1997 Mathematics
Internship	CHUNG-ANG UNIVERSITY Women's Junior School, Seoul. Korea, 1996 Math intern teacher for 8 th grade
Credential	Teaching credential for middle and high schools, South Korea, 1997
Internship	GARTNER-GROUP Inc, Seoul, Korea, 1997 Marketing department
M.S.	California Polytechnic University, Pomona, CA, 2000 Applied Mathematics
M.S.	University of California, Los Angeles, CA, 2001 Biostatistics
Ph.D.	University of California, Los Angeles, CA, 2007 Title of Dissertation: "Classification in CT image data" Biostatistics, (Advisor: Gang Li)
Postdoctoral	University of California, Los Angeles, CA, 2009 Radiological Science, (Advisor: Jonathan G. Goldin)

ACADEMIC APPOINTMENTS:

2016 – Present	Associate Professor in Residence, Department of Radiological Science & Biostatistics, University of California, Los Angeles, CA
2013 – 2016	Assistant Professor in Residence, Department of Radiological Science, University of California, Los Angeles, CA
2013 – 2016	Assistant Professor in Residence, Department of Biostatistics, University of California, Los Angeles, CA
2011 – 2013	Adjunct Assistant Professor, Department of Biostatistics, University of California, Los Angeles, CA
2009 – 2013	Adjunct Assistant Professor, Department of Radiological Science, University of California, Los Angeles, CA

PROFESSIONAL EXPERIENCE:

2015 – Present	Statistician, Connective Tissue Disease-Interstitial Lung Disease, Department of Rheumatology, University of California, Los Angeles, CA
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- 2014 – Present Co-director of Computer Vision and Imaging Biomarkers (CVIB), and Director of Biostatistics Core in CVIB, Department of Radiological Science, University of California, Los Angeles, CA
- 2011 – Present Biostatistician, Department of Biostatistics, University of California, Los Angeles, CA
- 2011 – Present Member, Jonsson Comprehensive Cancer Center, University of California, Los Angeles, CA
- 2009 – 2014 Biostatistician, Department of Radiological Science, University of California, Los Angeles, CA
- 2007 – 2009 Post-Doctoral Employee, Department of Radiological Science, University of California, Los Angeles, CA
- 2001 – 2007 Graduate Student Researcher, Department of Radiological Science, University of California, Los Angeles
- 1999 – 2000 Instructor, Department of Mathematics, California State Polytechnic University, Pomona
- 1997 – 1998 Tutor, Learning Resource Center, California State Polytechnic University, Pomona
- 1997 – 1997 Researcher, Department of Computer Information System, California State Polytechnic University, Pomona
- 1995 – 1996 Director, Photo Department, AD Power United College Club, Seoul, Korea

PROFESSIONAL ACTIVITIES:

UNIVERSITY COMMITTEE SERVICE

- Co-Chair of UCLA Computer Vision in Medicine Workshop, Theme of Lung CT Image Analysis, Feb/22/2008
- Co-Chair of UCLA Computer Vision in Medicine Workshop, Theme of Computer-Aided Lung Cancer Screening, Feb/21/2014
- Committee Member of UCLA Medical IRB 2 (oncology and hematology research) committee March 2014 - present
- Member, Johnson Comprehensive Cancer Center 2008- present
- Member, Connective Tissue Disease-Interstitial Lung Disease, Department of Rheumatology, David Geffen School of Medicine 2015- present
- Scientific Mentor, CTSI Grant Writing Studio, 2018 - present

SCIENTIFIC SOCIETY MEMBERSHIP

- American Statistical Association (ASA); 2004-present

Society of Thoracic Radiology (STR): 2012-present

Korean-American Scientists and Engineers Association (KSEA); 2013-present

American Society of Clinical Oncology (ASCO); 2013-2014

ACTIVITIES in SCIENTIFIC SOCIETIES

Committee member of QIBA CT Modality comprised of members from the Volumetric CT and COPD Technical Committees, RSNA since 2008-current

Organizer of topic contributed session #184, Development and Validation of Biomarker, Sponsored by Western North American Region (WNAR). Joint Statistical Meeting (JSM) sponsored by ASA, Aug/4/2008, Denver, CO.

Organizer of topic contributed session #459, Characteristics of Biomarker in the Clinical Development and Adoption, Sponsored by Biometrics Section, Joint Statistical Meeting (JSM) sponsored by ASA, Aug/5/2009, Washington, DC

Committee member of reviewing abstract for Quantitative Computer Tomography (QCT) session in Society of Thoracic Radiology (STR) June, 2012

Chair of topic contributed session #208951, *Patient Report Outcome and Biomarkers in Asthma*, Sponsored by Biometrics Section, Joint Statistical Meeting (JSM) sponsored by ASA, Aug/5/2013, Quebec, Canada

Scientific Committee member of the 2013 World Congress Thoracic Imaging sponsored by STR

RSNA-QIBA/FNIH FDG-PET Imaging Biomarker Qualification Committee members and advisors 2011-2012

Chair of Round Table Lunch Meeting, *Our Roles in Evaluating Biomarker in Clinical Trials*, Sponsored by FDA/DIA Statistical Forum, Apr/8/2014, Washington, DC

Chair of Math-Statistics Technology session 6, Bio-math and statistics, Sponsored by UKC and KSEA, Aug/9/2014, San Francisco, CA

Statistical Partnerships among Academe, Industry, and Government (SPAIG) member, sponsored by ASA, Oct/2014- present

Co-symposium Chair of Math-Statistics Technology symposium, Sponsored by UKC and KSEA, Aug/2015, Atlanta, GA

Chair of Math-Statistics Technology session 6, Bio-math and statistics, Sponsored by UKC and KSEA, Aug 2016, Dallas, TX

Co- symposium Chair of Math-Statistics Technology symposium, Sponsored by UKC and KSEA, Aug/2017, Washington, DC

Organizer of Korean-American Women in Science and Engineering of 9th & 10th West Coast Annual Conference by KSEA, May/16/2015 & Jan/16/2016, Pasadena, CA

Council Member of scholarship, KSEA August/2/2015- 2018

Chair of contributed session #700, Topics in Clinical Trial 3, Sponsored by Biopharmaceutical Section, Joint Statistical Meeting (JSM) sponsored by ASA, Aug/13/2015, Seattle, WA

Panel discussion member, Profile Guidance, QIBA Annual meeting Apr/13/2016

Chair of Round Table Lunch Meeting, *TL32: Oncology: Imaging Endpoints in Clinical Trials*, Sponsored by ASA Biopharmaceutical Section Regulatory-Industry Statistics Workshop, Sep/29/2016, Washington, DC

Member of the study team, Subpopulations and intermediate outcome measures in COPD study

Member of the Committee, Conference on Statistical Practice (CSP) sponsored by ASA, March/1/2016 –Feb/28/2020

OTHER RESEARCH-RELATED ACTIVITIES

Investigator of Reference Image Database to Evaluate Response (RIDER) 2009-2010

Investigator of Quantitative Imaging Biomarker (QIBA) initiated by RSNA: working on study design and statistical analyses plan in the experiment of 1A, 1B and 1C. 2009-current

Organizer of visit of Dr. Sue Jane Wang, associate director, Adaptive Design and Pharmacogenomics, from Office of Biostatistics, Office of Translational Sciences, CDER, FDA, two sessions of a) Adaptive versus Non-adaptive Biomarker Enrichment in Pharmacogenomics Trials and b) Biomarker Development and Its Qualification, joint sponsored by Department of Biostatistics, School of Public Health, and Department of Radiological Science, David Geffen School of Medicine at UCLA, May/12-13/2010, Los Angeles, CA

UCLA/AUPO Introduction to Clinical Research course, Sep/20/2014- Sep/22/2013, a discussion leader as role of biostatistician in helping clinical study design in the topic of appropriate/inappropriate control groups with Dr. Thomas Leitman and Dr. Steven Piantadosi.

NIH SREA MEDI Study Section Review June 2016, Reviewed 10 grants (Agenda Sequence Number 306352)

DoD Ad-hoc Section Review December 2016

NIH SREA BMIT-A Study Section Review June 2017, Reviewed 4 grants (Mail Reviewer)

EDITORIAL ACTIVITIES

Reviewer of *International Journal Artificial Intelligence in Medicine* (2009-2010)

Reviewer of *Journal of Biopharmaceutical Statistics* (2009-2010)

Reviewer of *European Radiology* (2012- current)

Reviewer of *Medical Physics* (2013- current)

Reviewer of *Medical Engineering and Physics* (2013- current)

Reviewer of *Statistical Methods Medical Research* (2014- current)

Reviewer of *IEEE Transactions on Medical Imaging* (2016- current)

Reviewer of *PLOS ONE* (2016- current)

SUPERVISED STUDENTS:

Teaching Experience:

Instructor and co-course originator (*BIOSTAT 245*), "Advanced Seminar: Biostatistics". Winter 2012, 2013, Winter 2014, Fall 2014, Winter 2015, Winter 2016. Together with one of faculty from Biostatistics department, organized and put together a seminar-oriented course for PhD Biostatistics students which covered an advanced understanding and the role that various areas of biostatistics including applied genetic/imaging areas.

Lecturer (*BIOSTAT 403A*), "*Computer Management of Health Data*", part of lecture series in large health data management, design, and application of statistics software SAS, Fall 2011. Teaching basic data management related to a clinical protocol and sorting, merging, and query of data quality check using statistical software.

Instructor (*BIOSTAT 596*), "*Directed Individual Study or Research*", guided students for their master thesis, Fall 2012, Winter 2013, Spring 2013. Teaching a study design and unbalanced data analysis and writing manuscripts.

Instructor (*BIOSTAT 597*), "*Preparation for Master's Comprehensive or Doctoral Qualifying Examinations*", Fall 2012. Supervising students for their master examination, Fall 2012. Providing the guidance and supervising in running the real research data with statistical software.

Instructor (*BIOSTAT 400*), "*Field Studies in Biostatistics*", supervising students for their field work in imaging analysis for health promotion, Fall 2014. Providing the opportunity of experience in a research lab: collection, analysis of image data, and statistical analysis of the outcome from imaging data

Instructor (*PBMED 217*), "*Statistics and Data Analysis in Biomedical Physics*". Fall 2015, 2016, and 2017. Lecture for two hours; a laboratory for one hour. Introduction to computer-based statistical concepts, data analysis, and experimental design within biomedical physics research. Standard statistical packages and various statistical computing algorithms on relevant data sets within radiological sciences.

Instructor (*BIOENGR M228*), "*Medical Decision Making*". Winter 2016, 2017 and 2018. Lecture for four hours; Overview of issues related to medical decision making. Introduction to concept of evidence-based medicine and decision processes related to process of care and outcomes. Basic probability and statistics to understand research results and evaluations, and algorithmic methods for decision-making processes (Bayes theorem, decision trees). Study design, hypothesis testing, and estimation. Focus on technical advances in medical decision support systems and expert systems, with review of classic and current research. Introduction to common statistical and decision-making software packages to familiarize students with current tools.

Guest Lecturer (*BIOENGR M224B*), "*Advances in Imaging Informatics*". Spring 2016. Lecture for two hours;
Teach statistical design based on the hypotheses and validation of the imaging outcomes, which are under-development.

Guest Lecturer (*BIOMATH 285*), "*High Throughput Data Analysis*". Spring 2017 and 2018. Lecture for 1.5 hours;
Teach Statistical methods in imaging- measurand, biomarkers, and radiomics.

CT Physics Teaching, “Statistical Design and Concept”, Aug 2017. Lecture for 3 hours; teach Statistical methods in diagnostic testing and concept for 1st year radiology residents.

Co mentoring with Ben Ellingson BioMed High School Student Program, November 8, 2016 – February 28, 2017

Ph.D. Committee Member:

I have four PhD students from Biostatistics and Physics Biology & Medicine (Biomedical Physics):

- 1) Maryam Khatonabadi, Ph.D. (2013; UCLA Biomedical Physics). I supervised her modeling the effective CT dose between vendors and demographic information
- 2) Daniel Chong (Ph.D. Candidate May 2012 – 2016; UCLA Biomedical Physics). Research is a continuation of my patent. He works on interstitial disease classification modeling with updated features and robust experiments from Biomedical Physics at UCLA.
- 3) Eran Barnoy, M.S. (Biostatistics Sep 2010 – June 2012). Started his study as PhD candidate in the Biostatistics Department, but he left to Israel for his personal reasons. Eran has continuously worked on heterogeneous index in lungs of asthma patients. This work is soon to be submitted to Statistical journal. He was supported by the grant from QIBA (NHLBI- PB-EB-2010-159-JKS, HHSN268201000050C, RECOVERY – QIBA). He is currently a PhD student in the department of Electronic Engineering and a recipient of the most prestigious award, President’s Scholarship at Bar Ilan University in Israel. I wrote the letter of support for him.
- 4) Sheng Wu (Ph.D. Candidate; Biostatistics Sep 2013 – Nov 2014). Working on imaging utilization in geriatric population. He was supported by ACR Neiman Institute Awards Grant
- 5) Yu Shi (Ph.D. Candidate; Biostatistics Sep 2015 – present) Working on IPF prediction using HRCT imaging funded by R21HL123477-01A1
- 6) John Hoffman (Ph.D. Candidate; Physics Biology & Medicine Mar 2016 – Mar 2018)

Other Mentees/Students Supervised

- 1) Jonhyoon (Jewels) Lee: Master’s student in the Department of Statistics at UCLA (Sep 2011- Jun 2013). I advised her dissertation and she received CAS scholarship (Fall 2012). She presented the poster of ‘Unbalanced Data Classification Using Support Vector Machines with Active Learning on Scleroderma Lung Disease Patterns’ at WNAR 2013.
- 2) David Huang: Master’s student in the Department of Biostatistics at UCLA (2011-2013). I advised his programing and his career plan. We compared the EM algorithms from three different statistical software (SAS, Stata, and R), which we found robust ways of converging to quantitative values within 0.01 tolerance level. Currently he works at Gilead biotech Company.
- 3) Roger Won Shih: Master’s student in the Department of Biostatistics at UCLA (June 2014- Sep 2014). I mentored him for his Field Studies (Biostat 400), which is part of his required courses. He had worked on the classification of idiopathic pulmonary fibrosis as part of eligibility of clinical trials.

COMMUNITY SERVICE:

Mexico mission trip sponsored by United Methodist church, Pomona, CA (July 1999)

Teaching SAT math section, Los Angeles CA (July-August 2001, July-August 2005)

Feeding homeless people in Los Angeles downtown CA (Dec 2006)

Taking care of toddlers during Sunday service, Los Angeles CA (Jan 2007- Jul 2008)

Career day talk to the 1st, 2nd, 3rd grade students, a role of scientist/biostatistician at the department of radiology with emphasis on no smoking and no drug, organized at Balboa Magnet Elementary school, Northridge CA (Nov 2009, June 2010, Nov 2010)

Assisting carpool lane for students' drop off and pick up at Balboa Magnet Elementary school, Northridge CA (May 2010, May 2012, Mar 2012, Sep 2013)

Serving lunch for students and staff at Granada Baptist Elementary school once in a month, Granada Hill CA (Sep 2011-Jan 2012)

Assisting the dress rehearsal for the Sound of Music musical, Metropolitan Educational Theatre Network, Northridge CA (Aug 2012)

Caring and Serving lunch for high school students and staff at Light of Love Mission Church, Pasadena CA (Oct 2012 – Nov 2014)

Teaching the 2nd grade elementary students for Approved Workman Are Not Ashamed (AWANA) program on every Friday evening at Light of Love Mission Church, Pasadena CA (Sep 2012 – June 2015)

Organizer and grader of National Mathematics, Science Competition and High School Physics Contest by KSEA, April/18/2015, Claremont, CA

Making a database and Grading the mathematic exam, KSEA National Math and Science Competition, April/11/2015, Claremont, CA

Presentation of Introducing “The role of Biostatistician”, KSEA Major Fair for Junior and High school students, October/10/2015, Claremont, CA

Proctoring, Grading the mathematic exam and awards female students from KWiSE, KSEA National Math and Science Competition Claremont College, April/9/2016, Claremont, CA

Panel Discussant in Medical/Public Health, 2nd Career Workshop from Global Leaders Association led by students, May/11/2016, UCLA, Los Angeles, CA

Panel Discussant “The role of Biostatistician in academics and industry, and future outlook of your field”, KSEA Major Fair for Junior and High school students, Sep/30/2017, Van Nuys, CA

Teaching, Career pathway to biomedical scientists, KSEA- Southern California Chapter Spring Career & Mentoring Workshop, March/24/2018, House of Writers, Los Angeles, CA

Presenting, ‘Touch questions to ask: STEM or not STEM, and when do we make decisions?’. KSEA- Southern California, National Math Science Engineering, April/7/2018, Harvey Mudd College, Claremont, CA

HONORS AND SPECIAL AWARDS:

CHUNG-ANG UNIVERSITY WOMEN’S School Board Community Scholarship (1992)

Cameron Bogue Statistician Memorial Scholarship, Cal Poly, Pomona (1998)

The Korean American Construction Company (1999)

Co-author: Cum Laude Poster, European Congress of Radiology (ECR), (2005)

American Association for Cancer Research (AACR), Scholar-in-Training Travel Award (2008)

Co-author: Honorable Mention, SPIE Medical Imaging meeting (2012)

Young Investigator Award, 3rd World Congress of Thoracic Imaging (WCTI) (2013)

Certificate of Merit, Best Scientific Exhibition Award, 3rd WCTI (2013)

Certificate of Appreciation, CHUNG-ANG UNIVERSITY College of Medicine (2015)

One of the best posters in Health Science, UCLA Research Conference on Aging (2015)

RESEARCH GRANTS AND FELLOWSHIPS RECEIVED:

NIH/ Non-profit Organization:

Name: N01-HR96143-01

Project PI: Roth, M.

INV: 49% Effort beginning 7/1/01 thru 12/31/04, 09/29/99 – 12/31/04 NHLBI

Total Direct Project: \$541,141

Role: Graduate student Researcher (GSR)

Purpose: *Clinical Centers for Feasibility Studies on Retinoid Treatment in Emphysema (FORTE)*

This project involves the use of imaging and other studies to evaluate the disease progression of emphysema in the lungs and its response using Retinoid treatments. The goal of the Radiology Core will be to coordinate imaging, data collection and quantitative image analysis of CT scans for patients who are being studied to evaluate disease progression of emphysema in the lungs and its response using Retinoid treatments.

Name: 019152-001

Project PI: Connett, J.

INV: 25% effort Graduate Student Researcher GSR

Duration: 05/01/05 – 04/30/08

Total Direct: \$55,575

Role: GSR

Purpose: Statistical support in University of Minnesota / NIH Prime FORTE (Feasibility Studies on Retinoid Treatment in Emphysema) Radiology Core

Name: UC Sales and Service Account

Project PI: Goldin

Thoracic Research Group “Computer Aided Image Analysis”

INV: Effective 10/1/07 100% effort

Duration: 07/01/04 – 06/30/2009

Role: GSR / Post-doctoral scholar as a biostatistician and scientist

Total Direct project: \$937,766 direct cost received to date

Purpose: to develop, evaluate and validate new computer vision techniques

Name: Itl06-10158

Project PI: Brown

“Computer –Aided Image Analysis for Treatment Targeting in Emphysema”

INV: 2.4 calendar months

Duration: 02/01/07 – 01/31/10

Role: Post-doctoral scholar/Assistant Professor/ Biostatistician/Scientist

Total Direct Project: \$512,902 all years

Purpose: to develop new computer vision techniques for automatic segmentation of the lungs into airways and lobes in CT images. These techniques will overcome limitations of existing systems and be reliable even for abnormal (diseased) patients, making it feasible to perform structural and functional analysis of the lung lobes and airways in emphysema patients on a routine clinical basis.

Specific Aim: Project will bring innovation to lung healthcare by using computer image analysis and decision support to optimize the treatment of emphysema.

Name: NIH CA 016042
Project PI: Gasson
INV: 10% Effort beginning 12/1/2008
Total Direct Project: UCLA JCCC CC SG Fund
Role: Assistant Professor /Biostatistician/Scientist
Purpose: to collaborate in developing cancer imaging biomarker.

Name: Brain Tumor Funders Collaboration 20092623
Project PI: Pope
INV: 5% Effort beginning 1/1/2010
Total Direct Project: UCLA Radiology Fund
Role: Assistant Professor /Biostatistician/Scientist
Purpose: to collaborate in developing a combining Genomics with physiologic imaging biomarkers to predict and follow treatment response in glioma cancer imaging biomarker.

Name: Organ Dose/Radiobiology Project
Project PI: Mike McNitt-Gray
INV: 10% Dec 30, 2010 to Dec 29, 2014
Total Direct Project: UCLA Radiology Fund. As part of Siemens Master Research Agreement with UCLA Department of Radiology
Role: Assistant Professor /Biostatistician
Purpose: Collaborating as Statistician in development of methods to more accurately assess radiation dose to sensitive organs and methods to reduce that dose and investigations into biological dosimetry using in vivo and ex vivo assays.

Name: NHLBI-PB-EB-2010-159-JKS, HHSN268201000050C, RECOVERY - QIBA
Project PI: Sullivan
INV: 10% Effort beginning 4/1/2011- 03/31/2012
Total Direct Project: UCLA Radiology Fund
Role: Assistant Professor /Biostatistician
Purpose: to collaborate in statistical design and analysis in estimating variance of multi-scanners in QIBA "Inter-scanner/inter-clinic comparison of reader nodule sizing in CT imaging of a phantom" in 1C experiment.

Name: NHLBI- PB-EB-2010-159-JKS, HHSN268201000050C, RECOVERY – QIBA
Project PI: Sullivan
INV: 10% Effort beginning 4/1/2011- 03/31/2012
Total Direct Project: UCLA Radiology Fund
Role: Assistant Professor /Biostatistician
Purpose (called 1B project): to collaborate in statistical design and analysis in estimating variance of multi-scanners in QIBA Inter- /inter-comparison of reader nodule sizing in CT imaging of MSK coffee break in 1B experiment.

Name: NHLBI- PB-EB-2010-159-JKS, HHSN268201000050C, RECOVERY - QIBA
Project PI: Sullivan
Award number: HHSN2682010 50C (15.a)
INV: 10% Effort beginning 8/1/2011- 07/31/2012
Total Direct Project: UCLA Radiology Fund
Role: Assistant Professor /Biostatistician
Purpose (called 1B extension project): to collaborate in statistical design and analysis in estimating variance of multi-scanners in QIBA Inter- /inter-comparison of reader nodule sizing in CT imaging of MSK coffee break in 1B experiment.

Name: NHLBI- PB-EB-2010-159-JKS, HHSN268201000050C, RECOVERY - QIBA
Project PI: Sullivan
Award number: HHSN268201000050C (16.a)
INV: 10% Effort beginning 8/1/2011- 07/31/2012
Total Direct Project: UCLA Radiology Fund

Role: Assistant Professor /Biostatistician

Purpose: QIBA (called 3A project): A Statistical Analysis and Setting Re-Usable Infrastructure in Statistical code for Large-Scale Algorithm

LAM Foundation Pilot Project Award

Lo (PI)

INV: 01/01/12-12/31/13

Role: Assistant Professor /Biostatistician/Scientist

Purpose: To develop a radiological imaging feature predictive and to characterize the patients' image data with refining and validating qualitative and quantitative features of lung

Role: Investigator

ACR Neiman Institute Awards Grant

Project PI: Hsu (PI)

INV: 40% GSR Support, 09/01/13-08/31/14

Role: Assistant Professor /Biostatistician/Scientist

Purpose: Geriatric Imaging Utilization: to quantitatively characterize the role and value of imaging in the care of an elderly outpatient population

R21

Project PI: Ellingson (PI)

INV: 5% Effort 09/01/12-08/31/14

Role: Assistant Professor /Biostatistician/Scientist

Purpose: Cell invasion, motility, and proliferation level estimate maps in gliomas, Predictive Biomarker for GBM using Apparent Diffusion Coefficient fMRI images

U01CA181156; McNitt-Gray (contact PI)

INV: 12% Effort 05/01/14-04/30/17

Role: Co-PI

Purpose: Quantitative CT Imaging for Response Assessment When Using Dose Reduction Methods

The goal of this project is to investigate the effects of radiation dose reduction techniques used in CT imaging on quantitative measures used in response assessment of patients in clinical trials.

UCLA CTSI Seed Grant; Hoffman (PI)

INV: Effort 08/01/14-02/29/16

Role: Assistant Professor /Biostatistician

A prospective, double blind, randomized, placebo controlled study to compare the effectiveness of intravenous acetaminophen and intravenous ibuprofen in reducing the use of opiates and anti-emetics to control post procedural pain and nausea in uterine fibroid embolization procedures.

Role: Biostatistician/Assistant Professor

Endocare Inc. 20142494 ; Lee & Abtin (PIs)

INV: 1.2% Effort 12/3/13-12/31/14

Role: Assistant Professor /Biostatistician

UCLA Cryoablation Study: This is pre-clinical study to assess utility of soft cream in procedure of cryoablation.

RSG-15-003-01-CCE: Ellingson

INV: 4.2% Effort 07/01/15 thru 06/30/19

Role: Co-Investigator

Purpose: ph-Weighted Molecular MRI in Brain Tumors

1R01 HL127153 NIH-NHLBI: Hu (PI)

INV: 5% Effort 7/7/15-7/6/2020

Role: Co-Investigator

Purpose: *A new paradigm of cardiovascular MRI for pediatric congenital heart disease.* This project aims to develop advanced 4D cardiovascular MRI and flow imaging techniques for imaging children with congenital heart disease.

1R01 R01HL131975-01NIH-NHLBI: Ennis (PI)

INV: 5% Effort 7/7/15-7/6/2020

Role: Co-Investigator

Purpose: *Validating Cardiac MRI Biomarkers and Genotype-Phenotype Correlation for DMD*. This project aims to develop and validate cardiac MRI Biomarkers and associated with Genotype for boys with Duchenne Muscular Dystrophy.

R21HL123477-01A1 NIH-NHLBI: Kim (PI)

INV: 13.5% Effort 8/15/15-7/31/2017

Role: PI

Purpose: Prediction of IPF Progression Using HRCT Imaging Patterns

The goal of this project is that quantitative imaging phenotypes determined either from single time points or from texture transitions occurring short-interval sequential time points, used alone or in multivariate model can predict disease progression in advance of standard clinical indicator of deterioration.

Society of Abdominal Radiology: Young (PI)

Role: Co-investigator

Purpose: Identifying Multiphasic MDCT Biomarkers to Predict the Expression of Carbonic Anhydrase-IX, Hypoxia-Inducible Factor 1 α , and PTEN, Important Prognostic Molecular Targets in Clear Cell Renal Cell Carcinoma

4500002285 BOSTON UNIVERSITY:Aberle (PI)

9/23/2016 - 8/31/2021

(Sub grant) Molecular and Imaging Biomarkers for Early Lung Cancer Detection in the Setting of Indeterminate Pulmonary Nodule

The goal of this project is develop and evaluate the molecular and imaging biomarkers for early lung cancer detection in the setting of indeterminate pulmonary nodule.

Role: Investigator

Industry Sponsorship:

G-45335 GENENTECH, INC.: Kim (PI)

INV: 10% Effort 7/1/16-06/30/2018

Role: PI

Purpose: Prediction of Idiopathic Pulmonary Fibrosis Using Imaging Pattern in Elderly Population

The goal of this project is that quantitative imaging phenotypes determined either from single time points or from texture transitions occurring short-interval sequential time points, used alone or in multivariate model can predict disease progression in the elderly population and understand the differences in advance of standard clinical indicator of deterioration.

PATENTS

1. Transitional Changes in Quantitative Interstitial Lung Disease [Provisional Patent: UC-2013-078-1-LA will be expired on Nov 8, 2013. Currently filed for full patent of Patent Cooperation Treaty to protecting the patent abroad: Application Number PCT/US2013/069501]. This computer aided diagnosis, QLF score is continuously used in two NIH clinical studies (ClinicalTrials.gov identifier: NCT00883129, 'Comparison of Therapeutic Regimens for Scleroderma Interstitial Lung Disease (The Scleroderma Lung Study II) (SLSII)'; ClinicalTrials.gov identifier: NCT00114530, 'Scleroderma: Cyclophosphamide or Transplantation (SCOT)'); This QLF score (so called computer-assisted scores of percent of area of lung parenchymal fibrosis) has been used as a *secondary or exploratory outcome* in five industry clinical studies in phase 2 (ClinicalTrials.gov identifier: NCT01766817, NCT00764309, NCT01262001, NCT01890265, NCT01872689, NCT0264848, NCT02453256). Phase 3b trials (NCT01979952) is also included, which was terminated early (1. Sample size adjusted from 275 to 113; 2. planning to change 12 month duration, but changed to 6 month changes in Feb/4/2015; and terminated at the sample size of 113)

Raghu G, Scholand MB, de Andrade J, Lancaster L, Mageto Y, Goldin J, Brown KK, Flaherty KR, Wencel M, Wanger J, Neff T, Valone F, Stauffer J, Porter S. FG-3019 anti-connective tissue growth factor monoclonal antibody: results of an open-label clinical trial in idiopathic pulmonary fibrosis *Eur Respir J*. 2016;47(5):1481-91

2. Apparatus and Method for Generating a Probability Map of a Biopsy Site [Provisional Patent: UC-2017-103-2-LA; U.S. Provisional Application Serial No. 62/567,290, filed on October 3, 2017].

LECTURES AND PRESENTATIONS:

1. "Prediction of IPF within 1-2 years with the Early Changes in Quantitative Imaging Patterns Using High Resolution Computed Tomography", International Conference on Biomarker Research in Clinical Medicine. Paris France, Feb 21, 2018.
2. "Application of Denoise on Medical CT images toward Classification in the Patterns of Lung Disease", Ulsan National Institute Science and Technology (UNIST), Ulsan South Korea, Brain Korea 21 plus Seminar, Dec 6, 2017.
3. "The Role of Metrology in Quantitative Imaging", Educational Course presentation (RC825A), Chicago IL, RSNA 2017, Dec 1, 2017.
4. "Computer Assisted Diagnostic of Interstitial Lung Disease", Invited speaker, Dubai, Asia Pacific League of Associations for Rheumatology (APLAR 2017), Oct 18, 2017.
5. "Voxel-wise lung pattern transition scores on HRCT images and their association with symptoms in patients with idiopathic pulmonary fibrosis" Milan Italy, IPF: clinical problems, ERS Sep 11, 2017.
6. "Automatic quantitative fibrosis scores at baseline is a predictor of progression in patients with IPF", Milan Italy, IPF: clinical problems, European Respiratory Society (ERS) Sep 11, 2017.
7. "HRCT Texture Feature Selection Using Particle Swarm Optimization in Unbalanced Data" Washington DC, Math Applied Mat, and Statistics section, UKC Aug 11, 2017.
8. "Prediction of IPF with the Early Changes in Quantitative Imaging Patterns Using High Resolution Computed Tomography", Dublin Ireland, International Colloquium on Lung and Airway Fibrosis (ICLAF), Sep 27, 2016.
9. "Quantitative Lung Fibrosis Score under Different CT Technical Parameters", Technical session- Math/Applied Math/Statistics, Dallas Texas, UKC Aug 12, 2016.
10. "Double Dare" Dallas Texas, Korean Women in Science and Engineering, UKC Aug 12, 2016.
11. "Quantitative HRCT scores in IPF and Other Application" Connective Tissue Disease/ILD meeting, UCLA, June 22, 2016.
12. "Denoise, Classification, and Quantitative Markers", Department of Biostatistics Seminar (BIOSTAT 245), UCLA, May 25, 2016."
13. "What Do We Mean By $p < 0.05$?", "Univariate and Multi-variate Analysis", "Kaplan Meier Curves and Net Classification", Los Angeles, CA, Trial Design and Analysis Part 2, Clinical Trials Workshop, Society for Cardiovascular Magnetic Resonance (SCMA), Jan 28, 2016
14. "Robustness-driven feature selection in classification of fibrotic interstitial lung disease patterns in computed tomography using 3D texture features", Claremont, CA, The Korean Computer Scientists and Engineers Association of America (KOCSEA) Technical Symposium, Dec 11, 2015
15. "The Role of Metrology in Quantitative Imaging", Quantitative Imaging Mini-Course Statistical Analysis/Metrology Issue, Chicago, IL, RSNA, December 1, 2015
16. "The Utilization and Role of Elderly Imaging: Analysis Using Electronic Health Record Data", Providence, RI, International Conference on Health Policy Statistics (ICHPS), Oct 8, 2015
17. "Quantitative Lung Fibrosis Score Using Low Dose Technique", Atlanta, GA, UKC, Aug 1, 2015
18. "Initial Study of Spatial Heterogeneity in Lung Air-trapping", San Francisco, CA, UKC, Aug 9, 2014
19. "Analytic Development of Heterogeneous Patterns", Boston MA, Joint Statistical Meeting, August 6, 2014
20. "Idiopathic Pulmonary Fibrosis: Comparison of a Quantitative Fibrosis Score and CT Indexes from Histogram as Biomarkers of Disease Severity and Surrogate Endpoints in Assessing Change", Scientific Paper Presentation, RSNA, December 4, 2013
21. "Denoise using the characteristics of CT Images and Classification", San Diego State University (SDSU), CA, Oct 8, 2013.
22. "Development and Evaluation of an Imaging Biomarker: A Transitional Research Approach", East Rutherford, NJ, UKC, Aug 10, 2013
23. "Quantitative Imaging Biomarker and Noise Characteristics in Computerized Tomography", Montreal Quebec Canada, Joint Statistical Meeting, August 4, 2013
24. "Denoise using the characteristics of CT Images and Classification of Interstitial Lung Disease for a Multi-center Trial", Samsung Medical Hospital, Seoul, Korea, Jun 26, 2013
25. "Adaptive CT Denoising for Image Quality Control in Quantitative Assessment of Lung Fibrosis", Seoul, Korea, June 11, WCTI 2013
26. "Quantitative CT Lung Fibrosis Score To Assess Longitudinal Changes in IPF Patients Treated with Immune Suppression", Seoul, Korea, June 9, WCTI, 2013
27. "Lung Cancer - Non-small Cell Local-regional/Small Cell/Other Thoracic Cancers", June 01, ASCO 2013

28. "An Index To Assess Multi-Factorial Transitional Changes In Interstitial Lung Disease", May 20, ATS 2013
29. "Comparative Evaluation of Multiple Programs Designed to Estimate Nodule Volumes from CT Scans", May 20, ATS 2013
30. "Denoise Using Noise characteristics in CT and Classification" , UCR Statistics Colloquium, Riverside, CA, Mar 12, 2013
31. "Denoise Using Noise characteristics in CT and Classification for Unbalanced Categories", Statistics in Imaging Section: Workshop on Statistical Image Analysis, Santa Fe, NM, Mar 7, 2013
32. "QIBA: Overview of completed Phantom Study", the joint QIBA Challenge and QI-Bench face-to-face meeting, NIST Campus, Gaithersburg, MD, Feb 25, 2013
33. "*Classification of CT Image in interstitial Lung Disease and Clinical Trials*" *Applied Statistics Seminar, Statistics Department, UCLA, 2-Oct 2012*
34. "Correlation of Quantitative Fibrosis Score with Pulmonary Function Tests in Scleroderma Population", Scientific Paper Presentation, RSNA, December 2, 2011
35. "An Insightful 5D Display of Air Trapping in Anatomic Segments of CT in Asthma Patients", Education Exhibit, RNSA, 2011
36. "Changes in ADC Histograms between Pre-surgical Scan and Post-recurrence Scan Predict the Survival of GBM Patient", Scientific Poster Informal Presentation, RNSA, November 27, 2011
37. "Association of texture-based quantitative fibrotic patterns and pulmonary function test", European Respiratory Society, Amsterdam, Netherland, Session 157, September 25, 2011.
38. "Imaging Biomarker and Clinical Trial", Seminar, Radiology, Nijmegen Hospital/University, Nijmegen, Netherland, September 26, 2011.
39. "Evaluation Process of Imaging Biomarker: Quantitative Lung Fibrosis (QLF) Score for Computer Tomography (CT) Data in Interstitial Lung Disease", Biostatistical Summer Seminar, Seoul National University, Seoul, Korea, August 4, 2011.
40. "Quantitative Pulmonary Fibrotic Reticular Pattern as Imaging Biomarker in Treatment Efficacy in Scleroderma/IPF", Sunrise Seminar (SS214), American Thoracic Society, Denver, May 17, 2011.
41. "Biostatistics, Analytical Support and Evaluation (BASE) Unit in Jonsson Cancer at UCLA ", Moving Forward in the Efficient Management and Use of Core Facilities, National Center for Research Resources, NIH, October 15, 2010
42. "Development of Imaging Biomarkers for Clinical Trials: Applications in Glioblastoma Multiform", Joint Statistical Meeting, Vancouver, Canada, August 2010.
43. "Enhanced Clinical Trial Study Design Using Imaging Biomarkers in COPD/Emphysema", Sunrise Seminar (SS206), American Thoracic Society, New Orleans, May 18, 2010.
44. "Cyclophosphamide versus Placebo in Scleroderma Lung Study using Total Quantitative Score of Fibrosis, Groundglass Opacity, and Honeycomb", American Thoracic Society, New Orleans, LA, May 16, 2010.
45. "Imaging Biomarker in Clinical Trial", UCLA Computer Vision in Medicine Workshop, Los Angeles, CA, February 19, 2010.
46. "Effect of Denoise in Classification", UCLA Department of Radiological Sciences and the Research Affairs Office, Research Seminar Dinner, Los Angeles, CA, November 18, 2009.
47. "Cyclophosphamide versus Placebo in Scleroderma Lung Study using Quantitative Fibrosis Score", Radiological Society of North America (RSNA), Chicago IL, December, 2009
48. "Can Apparent Diffusion Coefficient (ADC) be a predictive biomarker in Glioblastoma multiforme (GBM) patients", Joint Statistical Meeting (JSM), Washington, DC, August, 2009.
49. "Quantitative Lung Fibrosis as Biomarker in Treatment Efficacy in Scleroderma", Sunrise Seminar (SS117), American Thoracic Society, San Diego, May 18, 2009.
50. "Evaluation of an automated fibrosis score using CT texture features in patients with scleroderma", Mini symposium, American Thoracic Society, San Diego, May 19, 2009.
51. "Imaging biomarker in a view as biostatistician", Noon lecture, Discussion Room, Department of Radiology, Seoul National University Hospital, October 17, 2008
52. "Quantitative Lung Fibrosis (QLF) Score for Computer Tomography (CT) Data in Interstitial Lung Disease", Joint Statistical Meeting (JSM), Colorado, Denver, August, 2008.
53. "Cyclophosphamide versus Placebo in Scleroderma Lung Study using Quantitative Fibrosis Score", American Thoracic Society (ATS), Toronto, Canada, May, 2008.
54. "CT Image as Biomarker in Clinical Trial", UCLA Computer Vision in Medicine Workshop, Los Angeles, CA, February, 2008.
55. "Development of an Automated Fibrosis Score Using CT Texture Features in Patients with Scleroderma", Radiological Society of North America (RSNA), Chicago IL, November, 2007.
56. "Classification in Scleroderma Lung disease", Evening lecture, Seoul Asian Hospital, September 2007.
57. "Variable Selection and Classification Using Computed Tomography (CT) Medical Image Data", Joint Statistical Meeting (JSM), Salt Lake City, Utah, August, 2007.

58. "Bayesian Spatial Hierarchical Modeling for Asthmatic Patients and Non-asthmatic Adults", Joint Statistical Meeting (JSM), Minneapolis, Minnesota, August, 2005.
59. "Emphysema Classification based on a novel texture feature approaches", American Thoracic Society (ATS), San Diego, California, May, 2005.
60. "Texture Feature Analysis using Principal Component & Factor Analysis with validating -950Hu Density Mask", Joint Statistical Meeting, Toronto, Canada, August, 2004.

PUBLICATION/BIBLIOGRAPHY:

RESEARCH PAPERS

RESEARCH PAPERS (PEER REVIEWED)

Primary author is listed first in these publications.

* student or postdoctoral scholar supervised by me at the time.

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RESEARCH PAPERS - PEER REVIEWED (IN PRESS or available as E-print)

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CHAPTERS: None

LETTERS TO THE EDITOR: None

REVIEWS: None

EDITORIALS:

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ABSTRACTS

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DISSERTATION

1. Applied Math in MS: Risk Assessment Using Weibull Model
2. Biostatistics in PhD: Classification in Thoracic Computed Tomography Image Data

