



2020 End of Year Celebration
11 December 2020

Agenda

- ▶ Welcome / Settle In – All
- ▶ Summary of 2020 Activities and Reflections – Imola
- ▶ Holiday Snapshot – All
- ▶ Sharing Memorable Moments and Reflections – All

Summary of 2020 Activities and Reflections

WHAT A YEAR!



EAT
SLEEP
stay home
REPEAT

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We Adapted, Learned Together, and Delivered!

- ▶ I am very proud of our 2020 accomplishments!
- ▶ Grateful to everyone in the BBSW community who contributed to a successful year during these unusual circumstances and trying times



2020 Activities and Highlights

- ▶ Welcomed new President-elect, Board and Advisory Council
- ▶ Updated Mission statement
- ▶ Purchased Zoom account
- ▶ Held two successful virtual symposiums
- ▶ Developed the BBSW App
- ▶ Held five engaging community Meetups
- ▶ Kickstarted Project YODA
- ▶ Held a Leadership Forum on Data Sciences
- ▶ Supported virtual events by SFASA
- ▶ Managed BBSW administrative matters

February Offsite in Half Moon Bay *Seems like such a long time ago...*



Welcomed New Members at the Offsite

Commenced planning for the year

BOARD OF DIRECTORS

1. IMOLA FODOR, President and Chair of the Board, GNE
2. CHENG SU, President-elect, BIOMARIN
3. LIANG FANG, Past-president (MYOKARDIA)
4. CHITO HERNANDEZ (BIOMARIN)
5. JING HUANG (VERACYTE)
6. RAY LIN (GENENTECH)
7. **TARA MADDALA (TM BIOSTATS)**
8. **MAJA MILOSLAVSKY (JAZZ)**
9. **SOFIA MOSESOVA (DENALI)**
10. **JULIA VARSHAVSKY (OCCAMPOINT)**
11. DAVID ZHANG (MYOKARDIA)

ADVISORY COUNCIL

1. ALAN HOPKINS (BEIGENE)
2. MINGXIU HU (NEKTAR)
3. ZHENGNING LIN (ASCENDIS)
4. **RON YU (GILEAD)**
5. **WHEDY WANG (THERAVANCE)**
6. **YING LU (STANFORD)**
7. JIM WHITMORE (EXACT SCIENCES)
8. FAN ZHANG (ACERTA)

OFFICERS

1. IMOLA FODOR, President (GENENTECH)
2. CHENG SU, President-elect (BIOMARIN)
3. RUIXIAO LU, Secretary (EXACT SCIENCES)
4. NING LENG, Treasurer (GENENTECH)
5. JING DU, Assistant Treasurer (CORCEPT THERAPEUTICS)

Updated Vision and Mission Statement

OUR MISSION

To promote connection, leadership, growth and impact of the SF Bay Area statistics and quantitative science community.

OUR VISION

BBSW becomes a leading organization for amplifying the impact of statistics and quantitative science on the next generation healthcare through exchange of scientific ideas and supporting career growth of its members.

OUR FOCUS AREAS

Annual conference: main annual (virtual) event

Meetups: smaller meetings throughout the year

Leadership and career development: formal mentorship program and resources

Strategic alliances: partnerships with peer organizations to increase collective impact



Virtual Symposium #1: Embracing Challenges and Opportunities Posed by the Covid-19 Pandemic

Day 1: August 13

- 8:30 – 8:45 Symposium Welcome
Cheng Su (BioMarin)
- 8:45 – 9:20 Keynote: COVID-19 and the Evidence Generation System
Keynote Speaker: Robert Califf (Verily/Google)
- 09:20 – 09:30 Q&A
Moderator: Tara Maddala (TMbiostats)
- 9:35 – 10:55 Statistical and executional considerations for trials impacted by COVID-19 pandemic
Speakers: Marcel Wolbers, Chin-Yu Lin, Zoe Zhang, Xin Li (Roche/Genentech)
- 10:55 – 11:15 Q&A
Moderator: Tara Maddala (TMbiostats)
- 11:15 – 11:30 Closing remarks for Day 1 and RAFFLE
Cheng Su (BioMarin)

Day 2: August 14

- 8:30 – 8:40 Second day welcome
Whedy Wang (Theravance Biopharma)
- 8:40 – 9:05 Considerations and practices in monitoring COVID-19 impact
Speaker: Priscilla Yen (Amgen)
- 9:10 – 9:35 Safety assessment for studies and submissions impacted by COVID-19
Speaker: Greg Ball (Merck)
- 9:40 – 10:05 Summaries of COVID-19 infections in clinical trials
Speaker: Mary Nilsson (Lilly)
- 10:10 – 11:15 Round Table: How pharma/biotech navigates COVID-19 and what roles statisticians play during the crisis
Moderator: Julia Varshavsky (Occampoint)
- 11:15 – 11:30 Symposium closing remark and RAFFLE
Whedy Wang (Theravance Biopharma)

Virtual Symposium #2: Balancing Speed and Evidence in Developing Covid-19 Therapies

Featured Speakers **Panel Discussion after Talks** **November 5**

 **Keynote Speaker**
Peter Bach, MD, MAPP
Director, Center for Health Policy and Outcomes, Memorial Sloan Kettering Cancer Center
The inflexible paradox of scientific research: Urgency demands patience

 **Thomas Jaki, PhD**
Co-investigator of the UK-RECOVERY trial
Professor, Department of Mathematics & Statistics, Lancaster University
Designing efficient clinical trials during a pandemic: Some personal lessons from the RECOVERY trial

 **Julia Niewczas, PhD**
Principal Clinical Trial Design Methodology Expert, AstraZeneca
Statistical challenges of designing COVID-19 therapeutic and prophylaxis trials

 **Hemal B. Mehta, PhD**
Assistant Professor, Department of Epidemiology, Johns Hopkins Bloomberg School of Public Health
Balancing speed and evidence in COVID-19 trials

 **Natalia (Natasha) Mühlemann, MD, MBA**
Vice President, Strategic Consulting, Cytel
A Bayesian design for COVID-19 trials with focus on vaccines development

 **Rajat Mukherjee, PhD**
Research Fellow, Strategic Consulting, Cytel
A Bayesian design for COVID-19 trials with focus on vaccines development

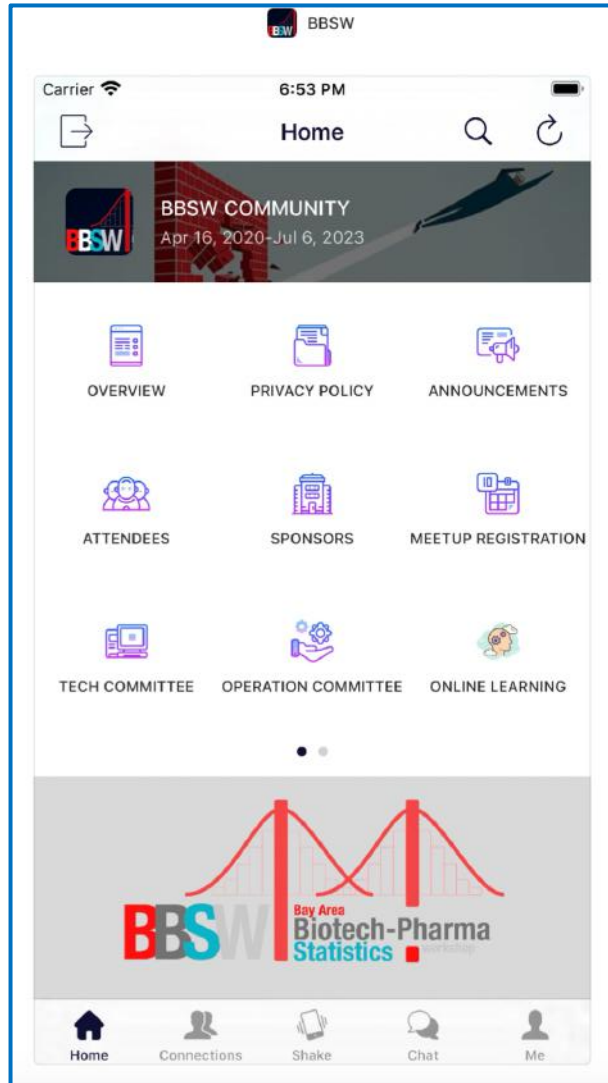
Raffle Drawing Prizes **Join our BBSW App upon registration**

Lessons Learned Debrief
7 Dec 2020

To be shared with next team

Survey coming soon to get
input/ideas for 2021

The BBSW App: Materials at Our Fingertips



Program Book and Speakers Bio

Nov 5th, 8:30 AM – 12:30 PM PST

8:30am	Welcome and Raffle
8:40am	<p><i>Keynote</i> Peter Bach, MD, MAPP</p> <p><i>The inflexible paradox of scientific research: Urgency demands patience</i></p>
9:15am	<p>Thomas Jaki, PhD</p> <p><i>Designing efficient clinical trials during a pandemic: Some personal lessons from the RECOVERY trial</i></p>
9:50am	<p>Natalia (Natasha) Mühlemann, MD, MBA Rajat Mukherjee, PhD</p>
10:35am	
11:10am	
11:25am	
12:25pm	

Program Book

[Day 1 \(Aug 13\)](#)

[Keynote: COVID-19 and the Evidence Generation System](#)

[Statistical and Executional Considerations for Trials Impacted by COVID-19 Pandemic](#)

[Day 2 \(Aug 14\)](#)

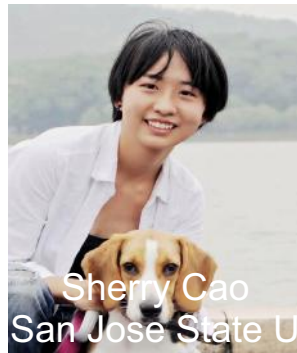
[Considerations and Practices in Monitoring COVID-19 Impact](#)

[Safety Assessment for Studies and Submissions Impacted by COVID-19](#)

[Summaries of COVID-19 Infections in Clinical Trials](#)

[Round Table](#)

Thank You to the Amazing Organizing Committee!



The First Meetup in February: Still F2F

R-Meetup



By the Bay Area R User Group (BARUG) and the Bay Area Biotech-pharma Statistics Workshop (BBSW)

2020/02/20 (Thursday), Genentech Building 40 room 1B/C, 6:30-9pm

AGENDA

- 6:30 - Reception and Networking
- 7:00 - Announcements
- 7:10 - Tony Chang (Biomarin) - Validating R in the Biotech-Pharma Industry
- 7:30 - Doug Kelkhoff (Genentech) - Building Trust in Open Source Scientific Software:
Grassroots Software Validation for R
- 8:05 - Dan Putler (Alteryx)- Understanding Opioid Prescribing Behavior in England

REGISTRATION REQUIRED! DEADLINE 2020/02/18 <http://bit.ly/sfr2020>

Followed by a Series of Virtual Events

BBSW 2020 June Meetup

By the Bay Area Biotech-pharma Statistics Workshop (BBSW)

2020/06/25 (4:00-5:00pm PST), Zoom



Bring your drink and meet friends! Connect with the Statistics/Data science community in biotech/pharma in the Bay Area

- We will share detailed BBSW2020 virtual conference plans during the meetup - consist of series of seminars and meetups
- Help us shape BBSW2020! What topic do you want to hear about in the upcoming series of virtual seminars and meetups? Any suggestions on virtual settings?
- Share our recent challenges and opportunities, experiences and tips
- Show us your favorite drink :)

LIMITED SEATS - REGISTRATION REQUIRED! <https://bbsw-tickets.ticketleap.com/2020june/>

BBSW 2020 Aug Meetup

By the Bay Area Biotech-pharma Statistics Workshop (BBSW)

2020/08/05 (4:00-5:00pm PST), Zoom



Bring your drink and meet your data enthusiastic friends!

We will be talking about -

- Hiring/Interviewing/Working During Quarantine
- Communication Skills In Virtual Setting
- Team Engagement in Virtual Meetings

Discussion Leads



Houston Gilbert,

- Head of Biometrics, Arcus Biosciences



Cristina Tudor

- Head of Biometrics, Corcept Therapeutics

LIMITED SEATS - REGISTRATION REQUIRED!

<https://bbsw-tickets.ticketleap.com/2020aug/>

BBSW 2020 Sept Meetup

By the Bay Area Biotech-pharma Statistics Workshop (BBSW)

2020/09/10 (4:00-5:00pm PST), Zoom



Bring your drink and meet your data enthusiastic friends!

We will be talking about **Real World Data!**

- Examples in Different Stages of Drug Development / Post-approval
- Challenges and Opportunities
- Data Quality and Standards

Discussion Leads



Mustafa Ascha

- Quantitative Scientist, Flatiron



James Chuo

- Real World Data Scientist, Genentech



Hao Zhang

- Executive Director, Biometrics GMA / RWE / HEOR / Market Access. BioMarin

LIMITED SEATS - REGISTRATION REQUIRED!

<https://bbsw-tickets.ticketleap.com/2020sept/>

BBSW 2020 Oct Meetup on Career Development

By the Bay Area Biotech-pharma Statistics Workshop (BBSW)
2020/10/22 (4:00-5:30pm PST), Zoom



Challenges and Opportunities in Small-to-midsize Pharma vs. Large Pharma

- Statistician roles
- Advocating value of statistics/biometrics
- Networking
- Building vision/infrastructure
- Vendor selection



Ning Leng



Julia Varshavsky



Sofia Mosesova

Discussion Leads



Chris Cabanski

- Director of Biostatistics, Parker Institute for Cancer Immunotherapy



Natasa Rajicic

- Executive Director of Biometrics, Arrowhead pharma



Rick Landin

- President & CEO, Presagia

Moderator



Julia Varshavsky

- Founder and Managing Director, OccamPoint



Highly engaging local networking

Kickstarted Project YODA BBSW Mentoring Program

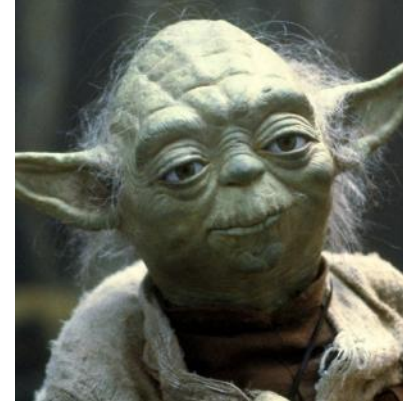
There is no passion to be found playing small—in settling for a life that is less than the one you are capable of living. – *Nelson Mandela*

If you don't know where you are going, you'll end up some place else.
– *Yogi Berra*

You will find only what you bring in. – *Yoda*

First cohort:

Ning Leng, David Zhang, Ruixiao Lu, Fan Zhang, Jing Du, Jing Huang, Zhengning Lin, Imola Fodor, Ron Yu, Jim Whitmore



May 2020



Chito Hernandez



Ray Lin

Fostered Connection and Learning: Leadership Forum on Growth & Hiring in Data Science



David Zhang

1. Areas what Data Science does differentiate from Biostats
 - Big data pipeline development (such as genetic sequencing in bioinformatics)
 - Computer engineering (such as AWS)
 - AI/ML algorithm development (such as cancer diagnostics through imaging)
2. Relationship between Biostats and DS
 - They are complementary groups in the “Data Value Chain”
 - DS is somewhat siloed from core clinical trials currently; should make an effort to integrate
3. How Data Science function should be positioned in the company
 - Depends on company size
 - If data sources are centralized, having de-centralized DS capabilities is fine
 - If data sources are siloed, having a centralized DS group can often be more effective
4. How to Recruit Top DS talents
 - Look for “thinkers” not just “doers” (having a Ph.D. may be a clue)
 - Have passion for life science as a personal cause
 - Biostats (especially in academia, e.g. Tibshirani lab) who learn Data Science skills are often safer bet
 - Use “top down” approach to hire the DS Head first to show company commitment to DS

Supported Local Organizations and Events



2020 SFASA Holiday Celebration

Keynote Speeches and Panel Discussion on

“A Positive Outlook During the Covid Era: how statistics could contribute to a better 2021”

- Dr Manisha Desai, Stanford
- Dr Xihong Ling, Harvard
- Dr Steven Goodman, Stanford
- Dr Thomas Snyder, Adaptive Biotechnologies
- Dr David Zhang, Myokardia
- Dr Ron Wasserstein, ASA Executive Director

2020 ASA Virtual Traveling Short Course

Empowering the Statistician with Spark, Machine Learning and Deep Learning

Instructors: **Dr. Hui Lin** (Quant Researcher, Google)
Dr. Ming Li (Senior Research Scientist, Amazon)



Stat4Onc Annual Conference Stanford May 7-9 (postponed)



Managed BBSW Organizational Matters

- ▶ Kept [web site](#) updated and sent communication materials
- ▶ Hired Esther Chung Legal Services counsel
- ▶ Retained Lloyd's London professional liability insurance
- ▶ Managed our finances – paid our bills and taxes
- ▶ Recognized contributors with appreciation gifts
- ▶ Thanks to our Comms Leads and Treasurers



Peiwen Wu



Xiaoye Ma



Ning Leng



Jing Du

Where Next?

- ▶ Write ASA article about 2020
- ▶ Elect new President-elect and assemble new Board
- ▶ Build on the 2020 conference lessons-learned and plan 2021
- ▶ Form strategy working group
 - ▶ Determine direction and focus areas
 - ▶ Consider areas deprioritized in 2020
 - ▶ Affiliation program
 - ▶ Leadership stories
- ▶ Tactics to support the strategy: organizational choices as BBSW matures
 - ▶ Balance volunteering with outsourcing (e.g. dedicated Zoom team)
 - ▶ Identify dedicated electronic storage

Thank You for a Successful 2020!

- ▶ I appreciated the opportunity to serve as Chair
- ▶ A special shoutout to Ruixiao for your partnership
- ▶ As a community of the BBSW Board, Advisory Council, Officers, and Volunteers, we built on the foundations set by the founding Board
- ▶ Look forward to passing the baton to the next team of leaders and continuing to support BBSW



Ruixiao Lu



Holiday Snapshot





Ron Yu



BB SW



Alan Hopkins



Cheng Su



Jing Du



Ying Lu



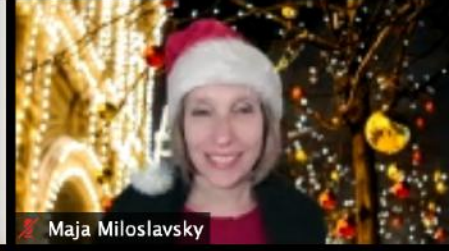
Peiwen Wu



Tara Maddala



Julia Varshavsky



Maja Miloslavsky



Jingyang Zhang



Shariq Alavi



Sherry Cao



Liang Fang



David Zhang



Jing Huang



Ning Leng



Fan

Memorable Moments and Reflections on 2020

Open session

