



# CON5884: The State of Analytics and Machine Learning

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# Agenda – The State of Analytics and Machine Learning

- Background on BIWA and Analytics and Data Summit
- Expertise Snippets
  - 4 TechCasts
- Analytics and Data Summit 2020
- TechCasts
  - Earn a free registration to AnD Summit
- Join! (Free)



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# ANALYTICS AND DATA SUMMIT 2020

All Analytics. All Data.  
No Nonsense.  
February 25-27, 2020

Call for Speakers Coming Soon!

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# Analytics and Data Summit

- **Founded summer, 2006**
- **BIWA Summit 2007 at Oracle, Reston, VA**
- **BIWA Summit 2008 at Oracle, Redwood Shores, CA**
- **BIWA Summit 2013, restarted in Redwood Shores, CA**
- **BIWA Summit 2014, 2015, 2016, 2017 at Oracle, Redwood Shores, CA**
- **Analytics and Data Summit 2018, 2019 at Oracle, Redwood Shores, CA**
- **Managed by Volunteer Board Members and Oracle Advisors**



# Analytics and Data Summit 2019 Worldwide!



**~400 worldwide attendees from 25 countries, 30 US states**

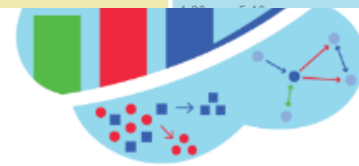




# 2 Example Agenda Days @ AnD

Analytics and Data Summit 2019 has ended					
10:00am					
10:15am	Optimization of the Hotel	Analysis and Interpretation	Query Kafka Streams with Oracle SQL	Self Optimization and Autonomy with IoT and AI/ML	(HOL) Test-drive the R and Python interfaces to Oracle Database for Data Science
10:30am			10:05am - 10:55am	10:05am - 10:55am	10:05am - 12:00pm
10:45am	Collaborative Filtering	Oracle Cloud Infrastructure			
11:00am					
11:15am	Predictive Analytics for Maintenance and Repair	Optimizing Parallel Spatial	Blockchain in a global step	Analyzing binary data in Hadoop	How to build a Data Lab: strategy and methodology
11:30am	11:10am - 12:00pm	Addressing Mobility	Manufacturing	11:10am - 12:00pm	11:10am - 12:00pm
11:45am			Blockchain: An Opportunity		
12:00pm					
12:15pm					
12:30pm					
12:45pm					
1:00pm	Applied Machine Learning for Autonomous Database Heal...	Using Graph Analysis for Fraud Detection in Fintech a...	Is Oracle Analytics Cloud	Building Modern Analytic Map Views in Oracle Analytic...	(HOL) Open Session
1:15pm	1:00pm - 1:50pm	1:00pm - 1:50pm	Analysis of Sensor Data	1:00pm - 1:50pm	1:00pm - 1:50pm
1:30pm			OWL Monkey: An Adaptive		
1:45pm					
2:00pm					
2:15pm					
2:30pm	Optimize Asset Maintenance with Machine Learning	Building Consistent Crime Investigation Practices Usi...	Digital Supply Chain Transformation with IoT and AI	Solutions for bi-directional integration between Orac...	(HOL) Introduction to Oracle Autonomous Data Warehouse
2:45pm	2:20pm - 3:10pm	2:20pm - 3:10pm	2:20pm - 3:10pm	2:20pm - 3:10pm	2:20pm - 4:15pm
3:00pm					
3:15pm					
3:30pm	How Data Miner and Analytics Cloud can help FinTech M...	PGQL: A Query Language for Property Graphs	Oracle Data Integration Cloud: Strategy and Vision fo...	Extreme Data Visualization to Drive User Adoption	Autonomous Data Warehouse the new Data Lake
3:45pm	3:25pm - 4:15pm	3:25pm - 4:15pm	3:25pm - 4:15pm	3:25pm - 4:15pm	3:25pm - 4:15pm
4:00pm					
4:15pm					
4:30pm	Reviving 3D visualization through...	Translating Natural Language to...	Spatial & Graph... & Blockchain!	Integration of Marketing Data wi...	Customer Success with Autonomous...
4:45pm					

Analytics and Data Summit 2019 has ended					
10:00am					
10:15am	Deep Learning De-Mystified for Non-Data Scientists	Introduction to Graph Analytics and Oracle Graph Clou...	Generation Two: Data Lakes and Data Science on Oracle...	Microservices Essentials: Kubernetes and its Eco syst...	(HOL) Oracle Analytics Cloud: from A to Z
10:30am					
10:45am	10:10am - 11:00am	10:10am - 11:00am	10:10am - 11:00am	10:10am - 11:00am	10:10am - 12:05pm
11:00am					
11:15am	Oracle's Machine Learning Overview, New Features and...	Graph Cloud Preview: How to Analyze Data Warehouse Da...	NoSQL on Oracle Cloud Infrastructure	The Case for Distributed Ledger: Enterprise Blockchai...	Billboards to Dashboards: How OUTFRONT Media is Using...
11:30am	11:15am - 12:05pm	11:15am - 12:05pm	11:15am - 12:05pm	11:15am - 12:05pm	11:15am - 12:05pm
11:45am					
12:00pm					
12:15pm					
12:30pm					
12:45pm					
1:00pm	An Oracle database approach to the Taxi Fare problem	Oracle Spatial Studio: Self Service Spatial Visualiza...	Leveraging Oracle Tools for Making Data Integration M...	Stepping Up to the Cloud with Oracle Analytics at Uni...	(HOL) Machine Learning 101 with SQL Developer's Oracl...
1:15pm	1:10pm - 2:00pm	1:10pm - 2:00pm	1:10pm - 2:00pm	1:10pm - 2:00pm	1:10pm - 2:00pm
1:30pm					
1:45pm					
2:00pm					
2:15pm					
2:30pm	Buyer persona creation	Using Location in Cloud Applications with Oracle Data...	Architecting for Analytics	Avoiding The Hidden Complexities of Stateful Microser...	(HOL) Machine Learning 202: Oracle Autonomous Databas...
2:45pm					
3:00pm	Share the NetSuite Love?				
3:15pm					
3:30pm					
3:45pm	Unlocking the meaning of unstruc...	Spatial New Features for Autonom...	BlockChain-Emerging Game Changer...	Building interactive charts and...	(HOL) Introduction to Property Graphs in Oracle Databases
4:00pm					
4:15pm					
4:30pm	Introducing Oracle Machine Learning for Python	Geo-Tagging, Geo-Enrichment, Geo-Fencing, and Trackin...	The Heart of an Airline's Business is a living and br...	Oracle Database In-Memory By Example	
4:45pm	4:20pm - 5:10pm			4:20pm - 5:10pm	



# TechCast Series

★ TechCasts [Submit Your Abstract](#)



## Our New Analytics and Data TechCast Series

To share knowledge, expertise, and ideas, the Oracle BIWA User Community is announcing the new Analytics and Data TechCast Series. The TechCast Series will occur every other Thursday at 12pm ET and last 30 minutes.

The objective of the Analytics and Data TechCast Series is the sharing of useful, practical applied Oracle technical expertise for the benefit of all; no sales pitches. We all use Oracle technologies, but can all grow by learning new features, tips and tricks, best practices, new and novel and interesting use cases.

New TechCast abstracts can always be entered using these TechCast categorizations:

- Artificial Intelligence and Machine Learning
- Big Data
- Business Analytics
- Data Warehousing and ETL
- Emerging Technologies
- General
- Spatial and Graph

[SUBMIT AN ABSTRACT](#)



# TechCast Series

★ TechCasts [Submit Your Abstract](#)



## October 3rd, TechCast

**Date:** October 3, 2019, 12pm  
ET

**Presenter:** Carol Palmer, David  
Lapp

**Subject:** Oracle Spatial Studio:  
Fast and Easy Spatial Analytics  
and Maps

[REGISTER](#)



## October 17th, TechCast

**Date:** October 17, 2019, 12pm  
ET

**Presenter:** Harry Snart

**Subject:** Production ML with  
the Autonomous Data  
Warehouse

[REGISTER](#)



## September 5th, TechCast

**Date:** September 5, 2019,  
12pm ET

**Presenter:** Philippe Lions

**Subject:** Oracle Analytics  
Makes the Most of Database  
Capabilities with Evaluate  
Function

[REPLAY](#)





# TechCast Series

## 2019 TechCast Archive

Date	Title	Speaker(s)	Video Replay	Slides
June 6, 2019	Extending Oracle Analytics Cloud's Data Visualization Using Custom Plugins	Wayne Van Sluys	<a href="#">Video</a>	<a href="#">Slides</a>
June 20, 2019	Picking a Good Wine for <\$20 Using ADW, Machine Learning and Analytics Cloud	Charlie Berger, Dhvani Sheth, Siddesh C Prabhu Dev Ujjini	<a href="#">Video</a>	<a href="#">Slides</a>
July 11, 2019	Developing an RDF4J Adapter for Oracle Spatial and Graph – SPARQL focus	Timea Turdean, Software Engineer, Semantic Web Company	<a href="#">Video</a>	<a href="#">Slides</a>
July 25, 2019	What's New in OAC 105.3.0	Dan Vlamis	<a href="#">Video</a>	<a href="#">Slides</a>
Aug 8, 2019	Autonomous Anomaly Detection for Dense-Sensor IoT Prognostics	Kenny Gross, AI Architect, Oracle	<a href="#">Video</a>	<a href="#">Slides</a>
Aug 22, 2019	Revisiting Market Basket Analysis with SQL Pattern Matching	Shankar Somayajula, Architect – Advanced Analytics, Industry Data Models, Oracle	<a href="#">Video</a>	<a href="#">Slides</a>



# TechCasts Example Snippets

The screenshot displays a web browser window with the Oracle Data Visualization Extensions gallery. The page features a grid of plugin cards, each with a thumbnail, title, author, date, description, and a 'Download' button. The plugins shown include:

- Butterfly Chart** by G. Adashet & D. Pires, May 28, 2019. Description: The Butterfly chart, also sometimes known as a tornado bar chart allows to compare 2 datasets side by side. This provides a quick analysis of variances and is a simple comparison chart. Use the tooltip in this custom viz to easily show the variances.
- DV Governance** by Oracle, May 12, 2019. Description: get an indepth analysis of your DV deployment, identify # of projects, datasources, data flows and much more. Includes DV sample.
- Custom Tiles** by Oracle, May 05, 2019. Description: The Custom Tile plugin allows users to frame rules for performing conditional formatting on a performance tile. The layout of the tile is highly flexible with large number of formatting options which makes it better for representing KPIs.
- Dimension Player** by Oracle, Mar 28, 2019. Description: A custom sample plugin that plays through the values of a dimension column like time, region etc and automatically updates all the visualizations in the canvas with the values of that dimension one at a time. This plugin makes all the visualizations in DV canvas behave like Dynamic charts.
- Dial Gauges Sample Plugin** by Oracle, Feb 12, 2019. Description: Custom sample plugin showing an interactive Dial Gauge visualization in a
- Row Expander Sample Plugin** by Oracle, Feb 12, 2019. Description: Custom sample plugin showing an
- Vertical Waterfall** by G. Adashet & D. Pires, Jan 8, 2019.
- Gantt Chart Sample Plugin** by Oracle.

The browser's address bar shows the URL <https://www.oracle.com/solutions/business-analytics/data-visualization/extensions.html>. The Windows taskbar at the bottom shows the time as 11:08 AM on 6/6/2019.



# TechCasts Example Snippets

The screenshot displays the Oracle Machine Learning web interface. At the top, there's a navigation bar with the Oracle logo and 'Machine Learning' text. Below this, a video player is embedded, showing a video titled 'Picking a Good Wine for <\$20 with ADW+OML'. The video player includes a progress bar at the bottom, a volume icon, and a 'Set Playback Range' button. The video content shows a person selecting a wine from a display of several glasses filled with red wine.

**Picking a Good Wine for <\$20 with ADW+OML**

SELECTING a wine to bring to a party that is likely to be good and is also inexpensive!

We've all been there. We are invited to a party and want to bring something to contribute. A bottle of wine is always a good option. But which one? There are so many! And we don't want to break the bank for our party gift. Let's try to use the Autonomous Database and Oracle Machine Learning to find a likely tasty and likely to be rated greater than 90 Points (GT\_90\_Points) adult beverage that is also affordable (Under \$35).

Kaggle WineReviews130K data = 130k wine reviews with variety, location, winery, price, and description, <https://www.kaggle.com/zynicide/wine-reviews>

**Steps**

1. Explore the data
2. Define the Target Attribute (GT\_90\_Points vs. LT\_90\_Points)
3. Find the Key Attributes that Most Influence GT\_90\_Points\_Bin
4. Build a Machine Learning Model to Predict Good Wines to Buy
5. Save our results and further investigate our wine findings using the Oracle Analytics Cloud

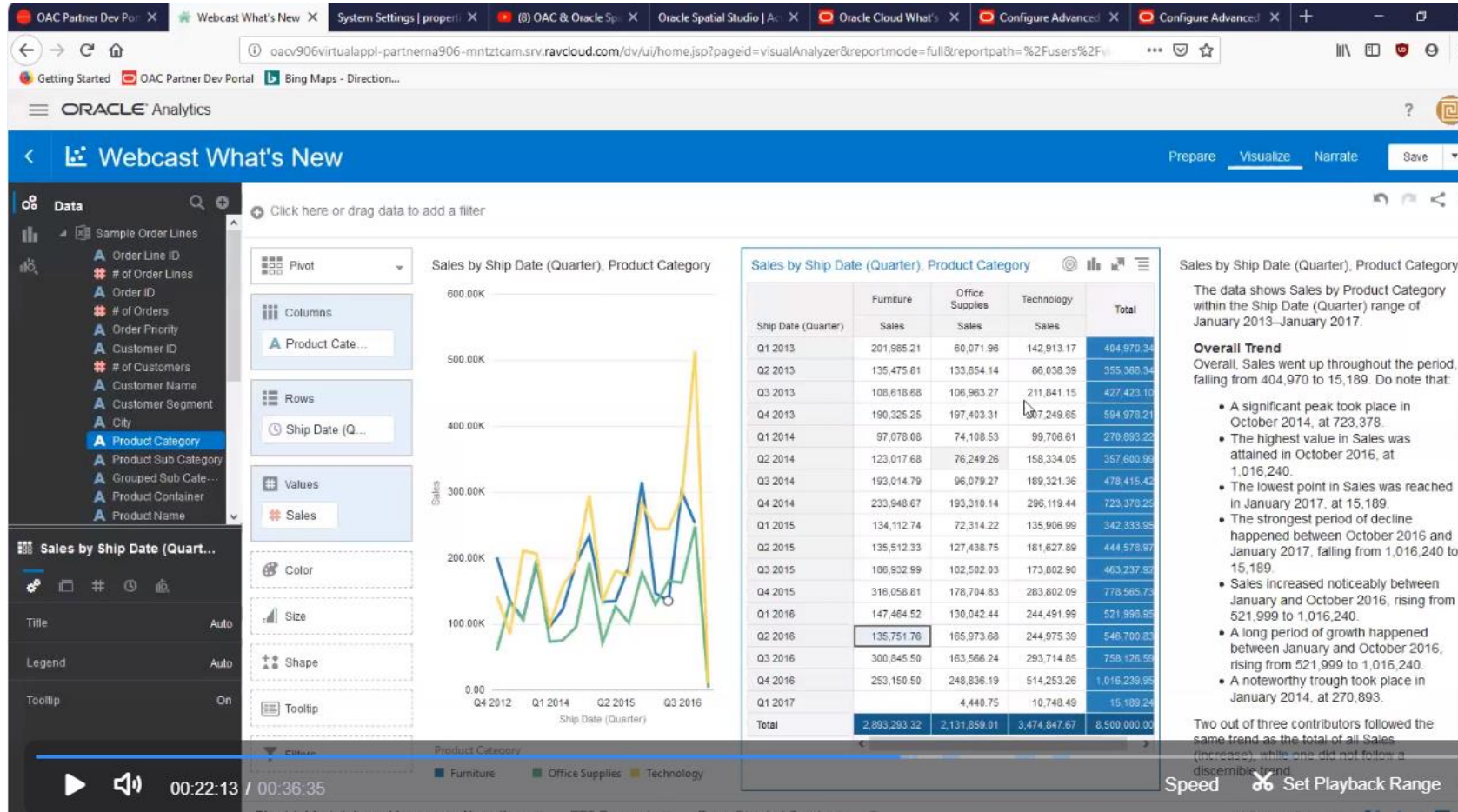
**Let's Explore the WineReviews130K data**

```
sql
select * from wineReviews130K;
```

COUNTRY	DESIGNATION	ID	POINTS_BIN	PRICE	PROVINCE	REGION_1	REGION_2	TASTER_NAME	VARIETY	WINERY
US	Wisdom of Wise	52518	LT_90_POINTS	32	California	Placer County	Sierra Foothills	Jim Gordon	Red Blend	Wise Villa
France	Nocturne Rosão Sec	52519	LT_90_POINTS	95	Champagne	Champagne		Roger Voss	Champagne Blend	Taittinger
Spain	Cala N 1	52520	LT_90_POINTS	15	Central Spain	Vino de la Tierra de Castilla		Michael Schachner	Red Blend	Tinada
Portugal	Bridão Clássico	52521	LT_90_POINTS	7	Tejo			Roger Voss	Portuguese Red	Adega Coope
France	Brut	52522	LT_90_POINTS	20	Alsace	Alsace		Anne Krebber MW	Auxerrois	Henri Schoenl
Spain	Sweet Reserva	52523	LT_90_POINTS	15	Catalonia	Cava		Michael Schachner	Sparkling Blend	Juñeda y Cam
Spain	Charnas	52524	LT_90_POINTS	22	Northem Spain	Ribera del Duero		Michael Schachner	Tambrillo	Lanlos



# TechCasts Example Snippets





# TechCasts Example Snippets

## MBA Revisited

- Transaction Data augmented with "Tags"

TRX_ID	TRX_SEQ	MB_PROD_LEVEL_ID	MB_PROD_LEVEL	MB_PROD_ID	MB_ORIG_PROD_ID	MB_PROD_NM	UNITS	QTY	AMT
3	1	1	item	1000112	112	q	1	1	60
3	2	1	item	1000105	105	p	2	4	100
3	3	1	item	1000008	8	a	1	1	10
3	4	1	item	1000012	12	b	10	1	180
3	5	1	item	1000015	15	c	10	5	270
3	6	1	item	1000115	115	r	4	1	280
3	7	24	custaspendtrx	250002	250002	Normal Spend: 10% to 90% (220% < trx_amt < 948%)	28	13	900
3	8	104	txrtod	550001	550001	EarlyHourSales	28	13	900
4	1	1	item	1000112	112	q	6	2	360
4	2	1	item	1000115	115	r	4	2	252
4	3	24	custaspendtrx	250002	250002	Normal Spend: 10% to 90% (220% < trx_amt < 948%)	10	4	612
4	4	104	txrtod	550002	550002	EveningHourBuys	10	4	612
5	1	1	item	1000021	21	d	4	1	160
5	2	1	item	1000112	112	q	6	1	360
5	3	1	item	1000012	12	b	8	2	160
5	4	1	item	1000115	115	r	4	1	280
5	5	24	custaspendtrx	250001	250001	High Spend: Top 10% (trx_amt >= 948%)	22	5	960
5	6	104	txrtod	550004	550004	SiestaTimeTrends	22	5	960
6	1	1	item	1000012	12	b	6	2	120
6	2	1	item	1000015	15	c	4	2	100

- Rules of type "IF ... THEN ..."

RULE_ID	ANTCONS	ANTCONS_ID	ANTCONS_CSV	ANTCONS_ID_CSV
100	b,z => p	1000012,1000125 => 1000105 b,z,p	1000012,1000125,1000105	
101	b,p => z	1000012,1000105 => 1000125 b,p,z	1000012,1000105,1000125	
102	q,r => b	1000112,1000115 => 1000012 q,r,b	1000112,1000115,1000012	
103	b,r => q	1000012,1000115 => 1000112 b,r,q	1000012,1000115,1000112	
104	b,q => r	1000012,1000112 => 1000115 b,q,r	1000012,1000112,1000115	
105	q,z => b	1000112,1000125 => 1000012 q,z,b	1000112,1000125,1000012	

- with more rules involving the added tags ...

RULE_ID	ANTCONS	ANTCONS_ID
10	Normal Spend: 10% to 90% (220% < trx_amt < 948%) => a	250002 => 1000008
73	Normal Spend: 10% to 90% (220% < trx_amt < 948%) => r	250002 => 1000115
41	Low Spend: Bottom 10% (trx_amt <= 220%) => c	250003 => 1000015
27	Low Spend: Bottom 10% (trx_amt <= 220%) => b	250003 => 1000012
75	High Spend: Top 10% (trx_amt >= 948%) => z	250001 => 1000125
47	High Spend: Top 10% (trx_amt >= 948%) => d	250001 => 1000021

RULE_ID	ANTCONS	ANTCONS_ID
53	SiestaTimeTrends => d	550004 => 1000021
51	LateNightTrx => d	550003 => 1000021
69	EveningHourBuys => q	550002 => 1000112

00:08:39 / 00:31:34

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Speed Set Playback Range





# Analytics and Data Summit Volunteers

- BIWA User Community  
BoD Leadership

- Dan Vlamis, Vlamis Software
- Matthew Vranicar, DataRoad
- Kirby Lungert, Performance Architects
- Jay Mason, M&S Consulting
- Peter Koutroubis, ERPA Group

- **You** next year? Ask board ribbons

- Conference Coordinators

- Carrie Dayton, CDEC
- Jackie Hunter, CDEC

- Oracle Employee Advisors

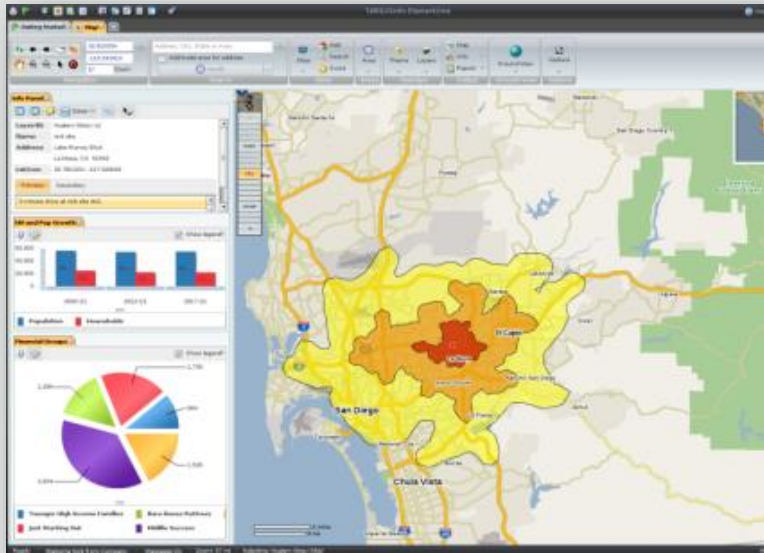
- Charlie Berger
- Mark Hornick
- Emily Cikovsky
- Shyam Varan Nath

- Conference Committee

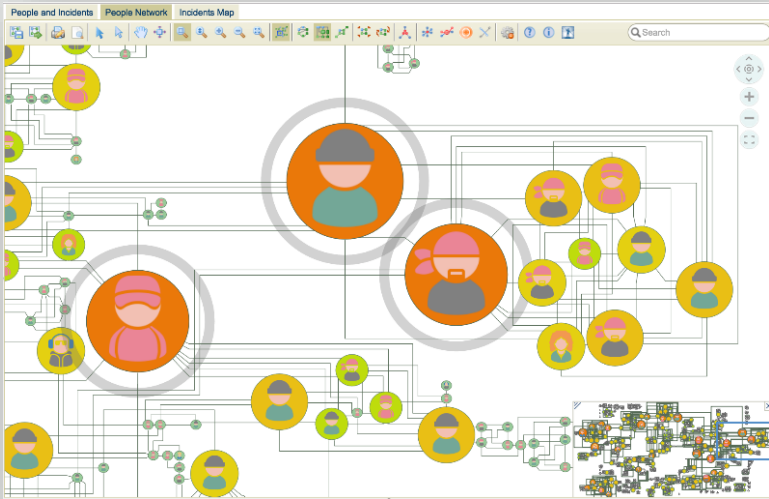
- Members from Spatial SIG
- Cathye Pendley, Vlamis Software
- Brandon Jones, M&S Consulting
- Ervin McFadden, independent
- Holly Krenz, Alaska Dept. of Fish and Game
- Arijit Das, Naval Postgraduate School



# Spatial and Graph Analysis is about relationships



Courtesy Neustar



Courtesy Tom Sawyer Perspectives

- Are things in the same location? Who is the nearest? What **tax zone** is this in? **Where can deliver in 35 minutes?** What is in my sales territory? Is this built in a flood zone?
- Which supplier am I most dependent upon? **Who is the most influential customer?** Do my products appeal to certain communities? What **patterns** are there in fraudulent behavior?

# Spatial and Graph enhances business analytics

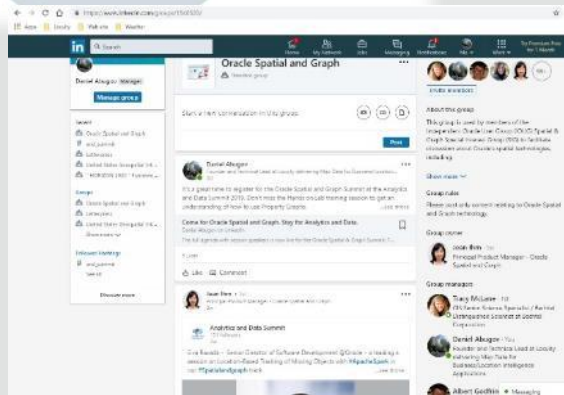


- Spatial and graph technologies enable insights into relationships
- Exploit location and social information into business workflows
- Manage and analyze data directly from Oracle Database and Oracle Analytics Cloud platforms
- Spatial and graph **enhances Analytics, Big Data, Machine Learning**
  - Graph: in Gartner's top 5 Analytics Trends 2019
- **Analytics, cloud services and developer-oriented** capabilities
  - New: Spatial Studio, Graph Cloud Service
- **Check out sessions and demos at OOW/Code One =>**  
**[bit.ly/SpatialGraphOOW19](https://bit.ly/SpatialGraphOOW19)**

# The Spatial & Graph SIG User Community

## *Now part of BIWA User Group*

We are a vibrant community of customers and partners that connects and exchanges knowledge online, and at conferences and events.



Meet us at OpenWorld! Monday-Wednesday  
**Moscone West, Level 3, User Group area**  
at the *BIWA/Analytics Community* table

**Spatial & Graph Sessions at OOW/Code One**  
[bit.ly/SpatialGraphOOW19](http://bit.ly/SpatialGraphOOW19)

Join us online  
[tinyurl.com/oraclespatialcommunity](http://tinyurl.com/oraclespatialcommunity)



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 Analytics and Data Summit

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SAVE THE DATE

# ANALYTICS AND DATA SUMMIT 2020


All Analytics. All Data.  
No Nonsense.

February 25-27, 2020

Call for Speakers Now Open!

SIGN UP FOR OUR NEWSLETTER

Formerly the BIWA Summit with the Spatial and Graph Summit.

@AnalyticAndData   

[analyticsanddatasummit.org](https://analyticsanddatasummit.org)

Seeking customer use cases and technology sessions  
Dedicated Spatial & Graph track with 20+ sessions



# Resources - Get Started



Oracle Spatial and Graph product pages

[oracle.com/technetwork/database/options/spatialandgraph](https://oracle.com/technetwork/database/options/spatialandgraph)



YouTube channel [youtube.com/c/OracleSpatialandGraph](https://youtube.com/c/OracleSpatialandGraph)



Blog – examples, tips & tricks

[blogs.oracle.com/oraclespatial](https://blogs.oracle.com/oraclespatial) | [blogs.oracle.com/bigdataspatialgraph](https://blogs.oracle.com/bigdataspatialgraph)



[@SpatialHannes](https://twitter.com/SpatialHannes)



[Oracle Spatial and Graph Group](https://in.linkedin.com/groups/Oracle-Spatial-and-Graph-Group)

# Spatial at OOW and Code One 2019

View this list at [bit.ly/SpatialGraphOOW19](https://bit.ly/SpatialGraphOOW19)



## Sessions

Date/Time	Title	Location
<b>Monday, Sept. 16</b>		
2:30 p.m. - 3:15 p.m.	<b>Harnessing Location with Node.js and Oracle Database [DEV3108]</b>	Moscone South - Room 306
<b>Tuesday, Sept. 17</b>		
11:30 a.m. - 12:15 p.m.	<b>Analyzing Location-based Patterns with Python and Oracle Database [DEV3108]</b>	Moscone South - Room 304
5:00 p.m. - 7:00 p.m.	<b>Python Development on Oracle Autonomous Transaction Processing Hands On Lab [HOL6517]</b> *Please bring your own laptop	Moscone West - Room 3011A
<b>Wednesday, Sept. 18</b>		
4:45 p.m. - 5:30 p.m.	<b>Taking You New Places: Oracle Analytics, Maps, and Spatial Working Together [CON6387]</b>	Moscone South - Room 209
<b>Thursday, Sept. 19</b>		
9:00 a.m. - 9:45 a.m.	<b>Maps and Spatial Databases: How To Use Them [TRN4756]</b>	Moscone South - Room 152B

# Spatial at OOW and Code One 2019

View this list at [bit.ly/SpatialGraphOOW19](https://bit.ly/SpatialGraphOOW19)



## Meet the Experts    At the Code One Groundbreakers Hub, Moscone South Level 1

<b>Tuesday, Sept. 17</b>		
4:30 pm - 5:20 pm	<b>Oracle Spatial Studio: Fast and Easy Spatial Analytics and Maps</b>	Lounge C, Code One Groundbreakers Hub, Moscone South level 1
<b>Wednesday, Sept. 18</b>		
2:30 pm - 3:20 pm	<b>How To Use Maps and Spatial Databases</b>	Lounge D, Code One Groundbreakers Hub, Moscone South level 1



# Graph at OOW and Code One 2019

View this list at [bit.ly/SpatialGraphOOW19](https://bit.ly/SpatialGraphOOW19)



## Sessions

Date/Time	Title	Location
<b>Tuesday, Sept. 17</b>		
8:45 a.m. - 10:45 a.m.	<b>Using Graph Analytics for New Insights [TUT4328]</b>	Moscone South - Room 204
11:15 a.m. - 12:00 p.m.	<b>New Tools for the Fight Against Financial Crime [CON6222]</b>	Moscone West - Room 3004
12:30 p.m. - 1:15 p.m.	<b>Using Graph Analysis and Fraud Detection in the Fintech Industry [Paysafe customer session]</b>	Moscone South - Room 152C
12:30 p.m. - 1:15 p.m.	<b>Blazing-Fast Distributed Graph Query Processing: 100x as Fast as Spark [DEV3712]</b>	Moscone South - Room 307
3:15 p.m. - 4:00 p.m.	<b>Introducing Oracle Graph Cloud: Automating Graph Analysis [TRN4754]</b>	Moscone South - Room 159B

# Graph at OOW and Code One 2019

View this list at [bit.ly/SpatialGraphOOW19](https://bit.ly/SpatialGraphOOW19)



## Sessions

Date/Time	Title	Location
<b>Wednesday, Sept. 18</b>		
10:00 a.m. – 10:45 a.m.	<b>Graph Databases and Analytics: How To Use Them [TRN4755]</b>	Moscone South - Room 152C
10:00 a.m. – 10:45 a.m.	<b>Setting Up Modern Anti-Money-Laundering Solutions to Service Wholesale [CON6223]</b>	Moscone West - Room 3004
11:15 a.m. - 12:00 p.m.	<b>Demystifying Graph Analytics for the Nonexpert [CON5503]</b>	Moscone South - Room 156B
1:30 p.m. - 2:15 p.m.	<b>Traversing and Querying Graphs with PGQL and Gremlin with Oracle Spatial and Graph [DEV4084]</b>	Moscone South - Room 202

## Meet the Experts    At the Code One Groundbreakers Hub, Moscone South Level 1

<b>Wednesday, Sept. 18</b>		
1:30 pm - 2:20 pm	<b>Graph Database and Analysis</b>	Lounge C, Code One Groundbreakers Hub, Moscone South level 1
2:30 pm - 3:20 pm	<b>Graph Cloud Service: Automating Graph Analysis</b>	





# Conference Highlights

See [analyticsanddatasummit2019.sched.com](https://analyticsanddatasummit2019.sched.com) for schedule



- **Tuesday**

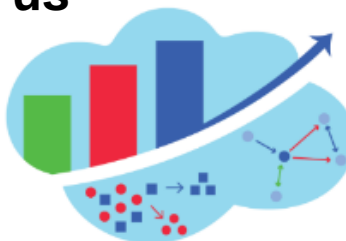
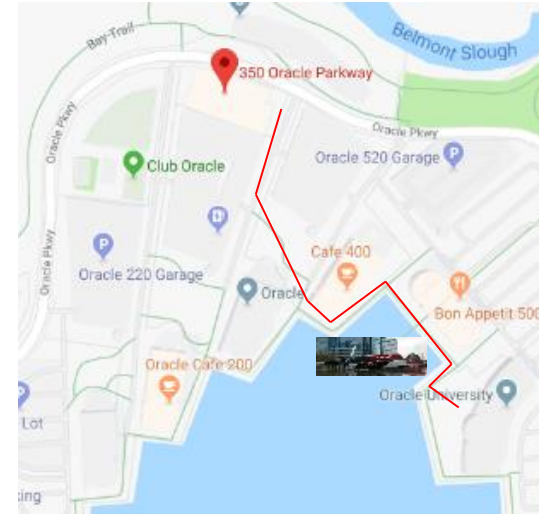
- Opening keynote: Jon Walton, CIO County of San Mateo - Intelligent County and City
- Lunch with popular “Lightning rounds” – get food and come to Auditorium
- Closing day keynote: Bruno Aziza, Group VP, :The Great Analytics Adventure”
- Reception/Party: Building 600, 6-8 →

- **Wednesday**

- Regular session day
- Lunch – “Birds of a Feather”
- Networking Reception

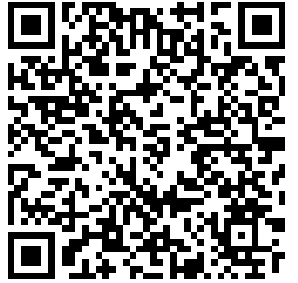
- **Thursday**

- Regular session day
- Lunch – “Feedback session” during 2<sup>nd</sup> half of lunch. Learn about BIWA and help us improve Analytics and Data Summit next year



# Conference Highlights

See [analyticsanddatasummit2019.sched.com](https://analyticsanddatasummit2019.sched.com) for schedule





# Conference Highlights

Hands on Labs Taught by Expert Users



# Always Seeking Active Volunteers!

- Join Analytics and Data User Community (on website)
- Share your expertise—Deliver a TechCast
- Join LinkedIn Group – Oracle BIWA SIG
- See Conference site for archives and updates
  - <http://analyticsanddatasummit.org>
  - Analytics and Data Summit 2020 Feb 25-27, 2020

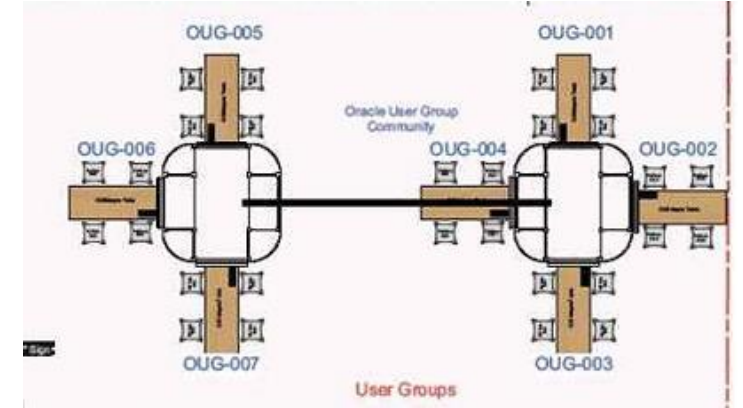
Volunteer – Talk to any BoD member





# Visit Our Booth!

- Moscone West, 3<sup>rd</sup> Floor – User group area
- Booth Xyz
- Visit with our volunteers
- Get scanned at our booth



# Stay in Touch!



## Sign up to Stay in Touch!

Fill in this information so we can keep you informed of future Techcasts and updates on our annual conference.

\* Email

\* First Name

\* Last Name

Phone Number

Company

Job Title

