



ORCID US Community presents: Structured Recognition via Rescognito & ORCID

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Structured Recognition via Rescognito and ORCID

10/10/2019

Richard Wynne, CEO

 <https://orcid.org/0000-0002-9217-0407>

<https://rescognito.com/0000-0002-9217-0407>

Agenda

- Introduction – Improving evaluation of research outputs using PIDs - (10 mins)
- Audience Participation – Hands-on experience (10 mins)
- Presentation – ORCID, DOI, ROR, CRediT for Peer-to-Peer and Curated/Institutional Recognition (10 mins)
- Demo (10 mins)
- Presentation – Practical use cases for libraries (10 mins)
- Questions (As long as you like!.,)

Annual Global Research Investment

\$2 trillion per year¹ invested in research



1. <https://www.nsf.gov/statistics/2018/nsb20181/report/sections/research-and-development-u-s-trends-and-international-comparisons/cross-national-comparisons-of-r-d-performance>

Research/Researcher Evaluation Depends on Publications and Citations

- “Mechanical problems” of identification and attribution
- Counterproductive incentives
- Overlook contributions

“Mechanical problems” of identification and attribution

Morgun A, Shulzhenko N, Unterkircher CS, Diniz RVZ, Pereira AB, Silva MS, et al. Pre- and post-transplant anti-myosin and anti-heat shock protein antibodies and cardiac transplant outcome. The Journal of Heart and Lung Transplantation. 2004;23(2):204–9.

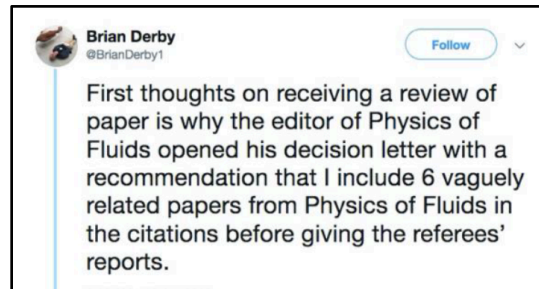
Contributions

Y.Z. and J.F. conceived and initiated the project; Y.Z. designed, performed and quantified most experiments, including scRNA-seq data analysis and interpretation; X.X. maintained cell culture, participated in experiments and independently repeated experiments; Y.S. helped to design experiments; S.W. developed the TCF/Lef:H2B-GFP reporter line and helped with scRNA-seq data analysis; Z.L. fabricated silicon moulds; S.N.E. helped with hPGCLC-related experiments; J.M.M., J.N.L. and V.M.W. provided the T-mNeonGreen reporter line; Y.Z., D.L.G. and J.F. wrote the manuscript; J.F. supervised the study. All authors edited and approved the manuscript.

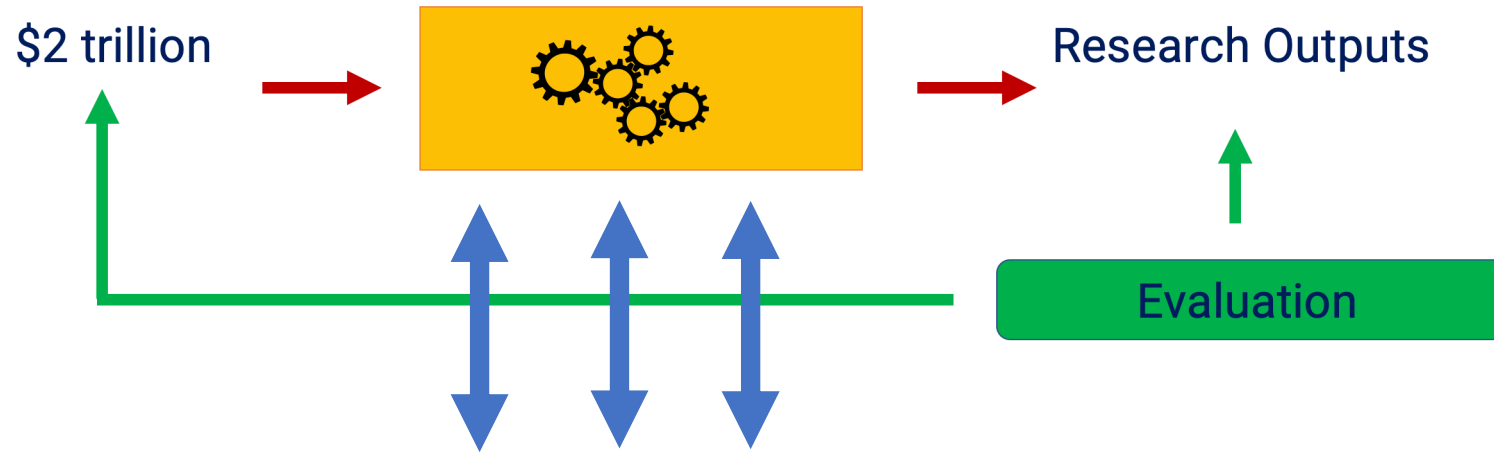
- Text string identification of contributors - ambiguity
 - Contribution implied from format rather than explicit
 - Imprecision (e.g. 10 contributors cite 10 contributors)
 - No citation reason or weighting
 - No contribution labeling...
-
- Contributor acknowledgement sections often entirely missing
 - Initials and text string identification
 - Inconsistent display and not structured
 - Idiosyncratic taxonomies and implementations
 - Not interoperable/reportable

Counterproductive incentives

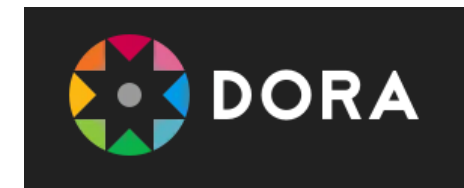
- Research “productivity” is equated to generation of publications and citations
- Rational response is to produce more publications and citations
 - “Do research to get grants not get grants to do research”
- Tricks of the trade
 - Salami slicing
 - P hacking
 - Harking
 - Overselling of correlations and effects
 - Focus on self-promotion rather than rigor
- Citation optimization
 - Journal tricks
 - Reciprocal
 - Citation “packing”
- The result? “Crisis” – scientific process undermined in public eye and research funding becomes vulnerable



Overlooked contributions



- Research lifecycle generates many milestones and outputs that can be usefully recognized:
"Research is not article shaped" – Alison Mudditt, CEO PLOS
- DORA (Declaration of Research Assessment): *"There is a pressing need to improve the ways in which the output of scientific research is evaluated by funding agencies, academic institutions, and other parties."*
- Stephen Curry, Imperial College: *"Researchers deserve to be judged on the basis of what they have done, not simply where they have published – and to be given credit for the many contributions they make above and beyond the publication of research papers."*



So...

....article citations indicate a possible connection between any of number of ambiguously-identified authors

..... to an unspecified number of ambiguously-identified authors in the cited manuscript....

.... for an unspecified reason....

.... in recognition of unspecified contributions....

.... for motivations that are not transparent....

.... while totally excluding non-manuscript related contributions....

On this basis we generate and use derivative measures of “impact” that are reported as accurate to three decimal places...

..... and then use the result to evaluate careers of millions of researchers and direct trillions of dollars in annual investment.

What Would a Better, PID-enabled System Look Like?

- Signal – Produces a more useful “signal” than current system
- Open – Free for individual researchers
- Transparent – Direct recognition not mediated through indirect attribution and opaque measures of impact
- Democratic– Anyone can participate
- Granular – Broad range of *factual* contributions recognized
- Attributable – Assertions that are verifiable
- Standards-based means Interoperable

What is Rescognito?

A Platform for Recognition:

Peer-to-Peer Recognition



Institutional – “Curated” - Recognition

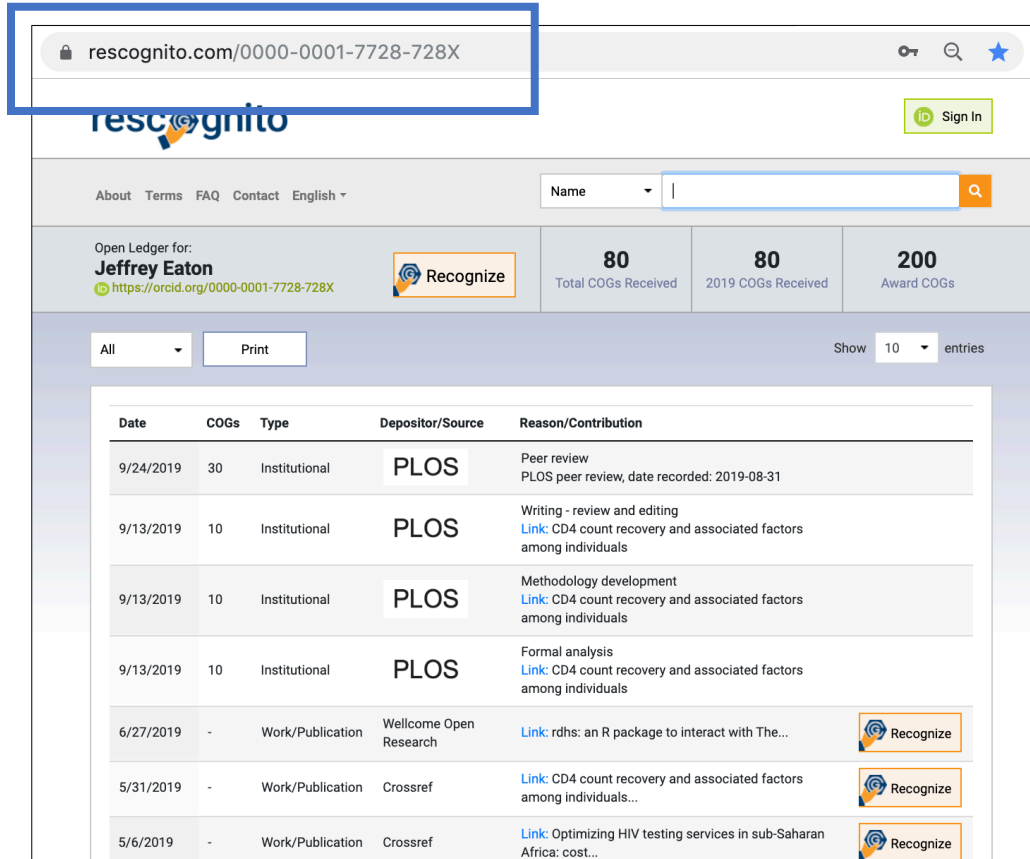





Audience participation!



The Rescognito Open Ledger

A structured, attributable, granular transcript of Recognition:

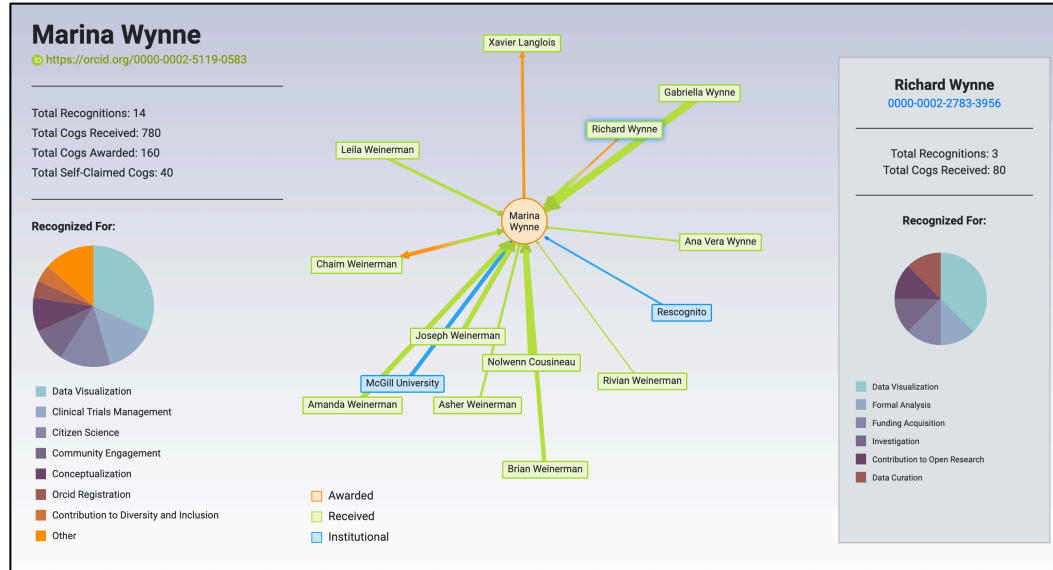


Date	COGs	Type	Depositor/Source	Reason/Contribution
9/24/2019	30	Institutional	PLOS	Peer review PLOS peer review, date recorded: 2019-08-31
9/13/2019	10	Institutional	PLOS	Writing - review and editing Link : CD4 count recovery and associated factors among individuals
9/13/2019	10	Institutional	PLOS	Methodology development Link : CD4 count recovery and associated factors among individuals
9/13/2019	10	Institutional	PLOS	Formal analysis Link : CD4 count recovery and associated factors among individuals
6/27/2019	-	Work/Publication	Wellcome Open Research	Link : rdhs: an R package to interact with The... 
5/31/2019	-	Work/Publication	Crossref	Link : CD4 count recovery and associated factors among individuals... 
5/6/2019	-	Work/Publication	Crossref	Link : Optimizing HIV testing services in sub-Saharan Africa: cost... 

- Carrots, not sticks
- Easy and convenient
- Fair, open and transparent
- Recognizes a *full* range of activities (code, data curation, mentoring etc.)
“Research is not article shaped”
- Granular and accountable
- Amplitude for better quality signaling
- Standards-based
- Build on what’s already there

Rescognito Open Ledger:

What can be recognized?



1. Author contributions – CRediT
2. Professional society service
3. Ad hoc recognition
4. Peer review
5. Open Science Badges
6. Much more



What does Peer-to-Peer Recognition Look Like?

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NAME

Open Ledger for:
Flávio Pinheiro
<https://orcid.org/0000-0002-0561-9641>

Recognize

40
Total COGs

40
2019 COGs

200
Award COGs

All ▾ Show 10 ▾ entries

Date	COGs	Type	Depositor/Source	Reason/Contribution
7/7/2019	20	Peer	Vitor Vasconcelos 0000-0002-4621-5272	Conceptualization Link: Consensus and polarization in competing complex contagion processes...
7/4/2019	-	Work/Publication	Crossref	Link: Optimal diversification strategies in the networks of related... Recognize
7/4/2019	-	Work/Publication	Crossref	Link: Structural and temporal patterns of the first global... Recognize
7/4/2019	-	Work/Publication	Universidade Nova de Lisboa	Link: Local wealth redistribution promotes cooperation in multiagent systems... Recognize
6/19/2019	-	Work/Publication	Crossref	Link: Consensus and polarization in competing complex contagion processes... Recognize



What does “Curated” (Institutional) Recognition Look Like?

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Name ▾ kristi holmes Q

Open Ledger for:
Kristi Holmes
id <https://orcid.org/0000-0001-8420-5254> Recognize

140 Total COGs Received	140 2019 COGs Received	200 Award COGs
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All ▾ Print Visualize (Beta) Show 10 ▾ entries

Date	COGs	Type	Depositor/Source	Reason/Contribution
10/8/2019	50	Institutional		University Prize Link : Faculty prize for xyz
10/8/2019	30	Institutional		IR Deposit Link : IR Deposit - "Librarians as part of cross-disciplinary, multi-institutional team projects.."
7/26/2019	20	Peer	Richard Wynne 0000-0002-9217-0407	Writing - original draft Link : DigitalHub: A Repository Focused on the Future...
7/26/2019	20	Peer	Richard Wynne 0000-0002-9217-0407	Mentoring

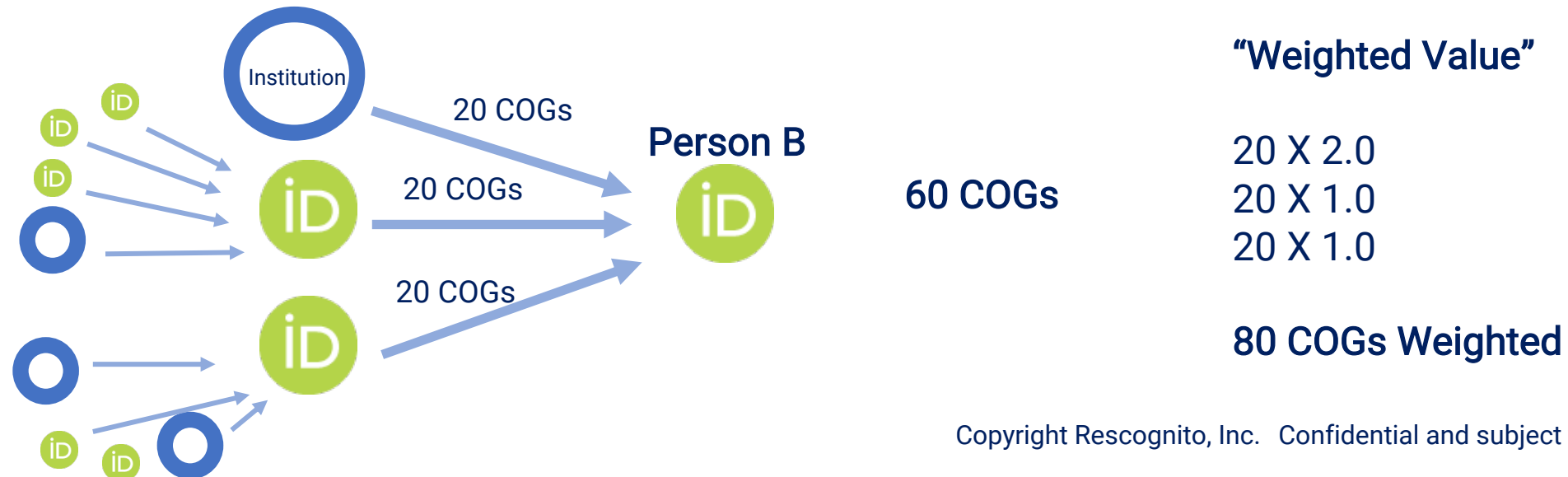


How is Institutional Recognition Recorded?

1. Manually - by an authorized individual
2. Semi-automated - by uploading a templated spreadsheet
3. Fully automated – by real-time API

Demo

Visualizing and Interpreting COGs



Candidate Library Pilots - for Discussion

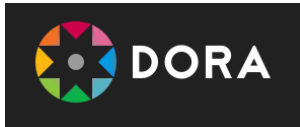
1. Assigning CRediT
2. Recognition of IR deposit
3. Amplification of institutional Awards and Prizes

Proteins that contain a Centrosomin Motif 1 (CM1) domain are key regulators of γ -tubulin complex-dependent microtubule nucleation, but how they are organized in higher-order structures is largely unknown. Mto1[bonsai], a truncated functional version of the *Schizosaccharomyces pombe* CM1 protein Mto1, interacts with Mto2 to form an Mto1/2[bonsai]

<http://rescognito.com/10.1101/754457>

CRedit Recognition for Your Faculty

- DORA compliance



“8. Encourage responsible authorship practices and the provision of information about the specific contributions of each author.”

- Free and easy: www.rescognito.com/doi
- Encourages greater ORCID adoption
- Increase faculty satisfaction – especially ECRs
- Signal your institutional expertise to research funders
- Reportable
- Branded and customized options available

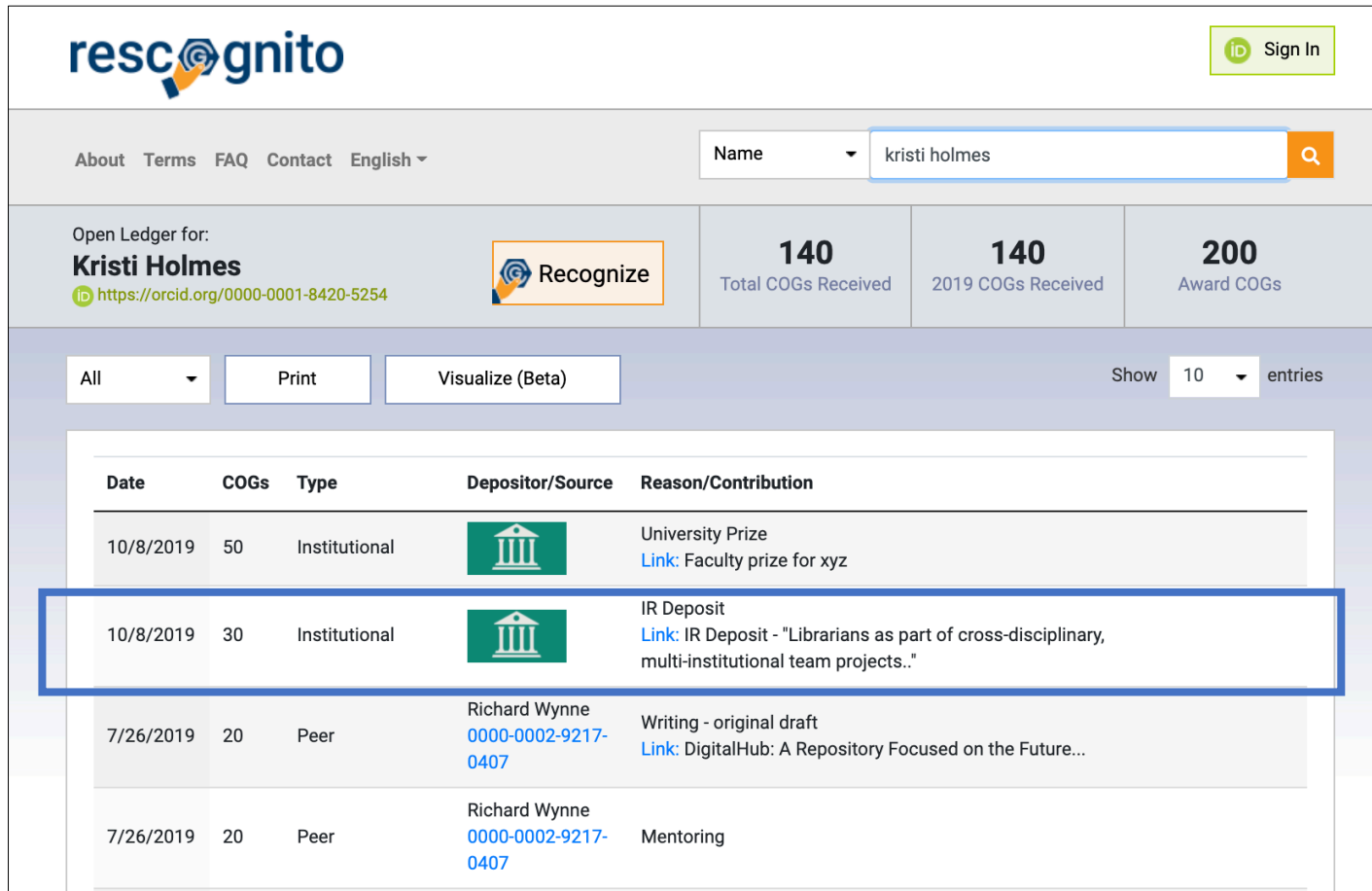


The screenshot displays the rescognito website interface. At the top, there's a navigation bar with links for About, Terms, FAQ, Contact, and English. A search bar on the right contains the name "clare sutherland". Below this, a table lists contributors for a specific work, with columns for Contributors, Reasons (5 COGs per selection), and Reason Selections. The contributors listed are Clare A. M. Sutherland, Gillian Rhodes, Nikolas Williams, Emily Connaughton, Louise Ewing, Nathan Caruana, and Robyn Langdon. To the right, a smaller version of the website shows a user profile for "Hi Robert Gordon" with a search bar containing "Quentin pittman". Below the profile, a contribution chart is visible, showing a bubble chart with numbers 5, 10, 15, and 20, representing different COG categories. A legend at the bottom right of the chart identifies the categories: Conceptualization, Data curation, Data visualization, Investigation, Formal analysis, Funding acquisition, Methodology development, and Other.

Candidate Library Pilots - for Discussion

1. Assigning CRediT
2. Recognition of IR deposit
3. Amplification of institutional Awards and Prizes

Recognize IR Deposits



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Name 🔍

Open Ledger for:
Kristi Holmes
id <https://orcid.org/0000-0001-8420-5254>

Recognize

	140 Total COGs Received	140 2019 COGs Received	200 Award COGs
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All ▾ Print Visualize (Beta) Show 10 ▾ entries

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- Structured recognition:
 - Branded
 - Quantified
 - Contextualized
 - ROR.org ID for Institution
- Convenient for recipient
- Interoperable/Reportable
- Requires no researcher "membership"
- Simple and low cost to implement

Candidate Library Pilots - for Discussion

1. Assigning CRediT
2. Recognition of IR deposit
3. Amplification of Institutional Awards and Prizes


Recognize Prizes and Awards

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Name ▾ kristi holmes 🔍

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Kristi Holmes
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 Recognize

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- Turn local recognition into international visibility
- Structured recognition:
 - Branded
 - Quantified
 - Contextualized
 - ROR.org institutional identification
- Convenient for recipient
- Interoperable/Reportable



PIDs make possible our vision:

An open environment where researchers and research professional are recognized for a wide range of behaviors and contributions that benefit the Open Research ecosystem

10/10/2019

Richard Wynne, CEO

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