

TIL...: 10+ Findings from 2022 Global FLOSS Research

Kaylea Champion – kaylea@uw.edu

<https://www.kayleachampion.com>

<https://communitydata.science>

University of Washington

SeaGL—November 4-5, 2022



```
#!/usr/global/bin/research  
import FLOSS
```

So Much FLOSS in Research!

Caveats:

1. Most of this is not my work!

So Much FLOSS in Research!

Caveats:

1. Most of this is not my work!
2. But it is still awesome!

So Much FLOSS in Research!

Caveats:

1. Most of this is not my work!
2. But it is still awesome!
3. Read these papers for full details!



[orca by alex. Putneypics via flickr, CC BY 2.0]

1 - Global Scale and Decentralization

- Who: Xin Tan and Minghui Zhou, China



X. Tan and M. Zhou, "Scaling Open Source Software Communities: Challenges and Practices of Decentralization," in *IEEE Software*, vol. 39, no. 1, pp. 70-75, Jan.-Feb. 2022, doi: [10.1109/MS.2020.3025959](https://doi.org/10.1109/MS.2020.3025959).

1 - Global Scale and Decentralization

- Who: Xin Tan and Minghui Zhou, China
- Why: FLOSS projects are vital and sometimes get huge



X. Tan and M. Zhou, "Scaling Open Source Software Communities: Challenges and Practices of Decentralization," in *IEEE Software*, vol. 39, no. 1, pp. 70-75, Jan.-Feb. 2022, doi: [10.1109/MS.2020.3025959](https://doi.org/10.1109/MS.2020.3025959).

1 - Global Scale and Decentralization

- Who: Xin Tan and Minghui Zhou, China
- Why: FLOSS projects are vital and sometimes get huge
- How: Series of projects: the kernel, node.js, fastlane



X. Tan and M. Zhou, "Scaling Open Source Software Communities: Challenges and Practices of Decentralization," in *IEEE Software*, vol. 39, no. 1, pp. 70-75, Jan.-Feb. 2022, doi: [10.1109/MS.2020.3025959](https://doi.org/10.1109/MS.2020.3025959).

1 - Global Scale and Decentralization

- Who: Xin Tan and Minghui Zhou, China
- Why: FLOSS projects are vital and sometimes get huge
- How: Series of projects: the kernel, node.js, fastlane
- Key Finding: $1 + 1 + 1 + 1 = 2$; automating and getting organized helps



X. Tan and M. Zhou, "Scaling Open Source Software Communities: Challenges and Practices of Decentralization," in *IEEE Software*, vol. 39, no. 1, pp. 70-75, Jan.-Feb. 2022, doi: 10.1109/MS.2020.3025959.

2 - Why Join the Apache Foundation?

- Who: Nan Yang, Isabella Ferreira, Alexander Serebrenik, Bram Adams - Netherlands, Canada

Yang, N., Ferreira, I., Serebrenik, A., Adams, B. (2022). Why do projects join the Apache software foundation? Proceedings of the 2022 ACM/IEEE 44th International Conference on Software Engineering: Software Engineering in Society, 161–171.
<https://doi.org/10.1145/3510458.3513006>

2 - Why Join the Apache Foundation?

- Who: Nan Yang, Isabella Ferreira, Alexander Serebrenik, Bram Adams - Netherlands, Canada
- Why: Foundations have been a key part of FLOSS growth

Yang, N., Ferreira, I., Serebrenik, A., Adams, B. (2022). Why do projects join the Apache software foundation? Proceedings of the 2022 ACM/IEEE 44th International Conference on Software Engineering: Software Engineering in Society, 161–171.
<https://doi.org/10.1145/3510458.3513006>

2 - Why Join the Apache Foundation?

- Who: Nan Yang, Isabella Ferreira, Alexander Serebrenik, Bram Adams - Netherlands, Canada
- Why: Foundations have been a key part of FLOSS growth
- How: Analyze proposals to join the Apache Incubator program

Yang, N., Ferreira, I., Serebrenik, A., Adams, B. (2022). Why do projects join the Apache software foundation? Proceedings of the 2022 ACM/IEEE 44th International Conference on Software Engineering: Software Engineering in Society, 161–171.
<https://doi.org/10.1145/3510458.3513006>

2 - Why Join the Apache Foundation?

- Who: Nan Yang, Isabella Ferreira, Alexander Serebrenik, Bram Adams - Netherlands, Canada
- Why: Foundations have been a key part of FLOSS growth
- How: Analyze proposals to join the Apache Incubator program
- Key Finding: Projects want community! Also, there's an increase in interest from corporations, Asia

Yang, N., Ferreira, I., Serebrenik, A., Adams, B. (2022). Why do projects join the Apache software foundation? Proceedings of the 2022 ACM/IEEE 44th International Conference on Software Engineering: Software Engineering in Society, 161–171.
<https://doi.org/10.1145/3510458.3513006>

3 - Attracting and Retaining Contributors

- Who: Mariam Guizani, Thomas Zimmermann, Anita Sarma, Denae Ford – US

Mariam Guizani, Thomas Zimmermann, Anita Sarma, and Denae Ford. 2022. Attracting and Retaining OSS Contributors with a Maintainer Dashboard. In Software Engineering in Society (ICSE-SEIS'22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 5 pages. <https://doi.org/10.1145/3510458.3513020>

3 - Attracting and Retaining Contributors

- Who: Mariam Guizani, Thomas Zimmermann, Anita Sarma, Denae Ford – US
- Why: New features are being added to source code hosting platforms – do they work?

Mariam Guizani, Thomas Zimmermann, Anita Sarma, and Denae Ford. 2022. Attracting and Retaining OSS Contributors with a Maintainer Dashboard. In Software Engineering in Society (ICSE-SEIS'22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 5 pages. <https://doi.org/10.1145/3510458.3513020>

3 - Attracting and Retaining Contributors

- Who: Mariam Guizani, Thomas Zimmermann, Anita Sarma, Denae Ford – US
- Why: New features are being added to source code hosting platforms – do they work?
- How: Design a dashboard to implement features, then interview project leaders about them

Mariam Guizani, Thomas Zimmermann, Anita Sarma, and Denae Ford. 2022. Attracting and Retaining OSS Contributors with a Maintainer Dashboard. In Software Engineering in Society (ICSE-SEIS'22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 5 pages. <https://doi.org/10.1145/3510458.3513020>

3 - Attracting and Retaining Contributors

- Who: Mariam Guizani, Thomas Zimmermann, Anita Sarma, Denae Ford – US
- Why: New features are being added to source code hosting platforms – do they work?
- How: Design a dashboard to implement features, then interview project leaders about them
- Result: Dashboard is useful! Tagging good first issues, adding “social good” tags, using badges for rising contributors

Mariam Guizani, Thomas Zimmermann, Anita Sarma, and Denae Ford. 2022. Attracting and Retaining OSS Contributors with a Maintainer Dashboard. In Software Engineering in Society (ICSE-SEIS'22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 5 pages. <https://doi.org/10.1145/3510458.3513020>

4 - Good For Newcomers

- Who: Wenxin Xiao, Hao He, Weiwei Xu, Xin Tan, Jinhao Dong, Minghui Zhou – China

Wenxin Xiao, Hao He, Weiwei Xu, Xin Tan, Jinhao Dong, and Minghui Zhou. 2022. Recommending Good First Issues in GitHub OSS Projects. In 44th International Conference on Software Engineering (ICSE '22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 13 pages. <https://doi.org/10.1145/3510003.3510196>

4 - Good For Newcomers

- Who: Wenxin Xiao, Hao He, Weiwei Xu, Xin Tan, Jinhao Dong, Minghui Zhou – China
- Why: Good first issue tagging is important for onboarding newcomers but time consuming

Wenxin Xiao, Hao He, Weiwei Xu, Xin Tan, Jinhao Dong, and Minghui Zhou. 2022. Recommending Good First Issues in GitHub OSS Projects. In 44th International Conference on Software Engineering (ICSE '22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 13 pages. <https://doi.org/10.1145/3510003.3510196>

4 - Good For Newcomers

- Who: Wenxin Xiao, Hao He, Weiwei Xu, Xin Tan, Jinhao Dong, Minghui Zhou – China
- Why: Good first issue tagging is important for onboarding newcomers but time consuming
- How: Treat newcomer-resolved issues as ground truth data to train machine learning classifier

Wenxin Xiao, Hao He, Weiwei Xu, Xin Tan, Jinhao Dong, and Minghui Zhou. 2022. Recommending Good First Issues in GitHub OSS Projects. In 44th International Conference on Software Engineering (ICSE '22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 13 pages. <https://doi.org/10.1145/3510003.3510196>

4 - Good For Newcomers

- Who: Wenxin Xiao, Hao He, Weiwei Xu, Xin Tan, Jinhao Dong, Minghui Zhou – China
- Why: Good first issue tagging is important for onboarding newcomers but time consuming
- How: Treat newcomer-resolved issues as ground truth data to train machine learning classifier
- Key Finding: Machine learning can help with this problem!

Wenxin Xiao, Hao He, Weiwei Xu, Xin Tan, Jinhao Dong, and Minghui Zhou. 2022. Recommending Good First Issues in GitHub OSS Projects. In 44th International Conference on Software Engineering (ICSE '22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 13 pages. <https://doi.org/10.1145/3510003.3510196>

5 - Sponsorship

- Who: Xunhui Zhang, Tao Wang, Yue Yu, Qiubing Zeng, Zhixing Li, and Huaimin Wang - China.

Xunhui Zhang, Tao Wang, Yue Yu, Qiubing Zeng, Zhixing Li, and Huaimin Wang. 2022. Who, What, Why and How? Towards the Monetary Incentive in Crowd Collaboration: A Case Study of Github's Sponsor Mechanism. In CHI Conference on Human Factors in Computing Systems (CHI '22), April 29-May 5, 2022, New Orleans, LA, USA. ACM, New York, NY, USA, 18 pages.
<https://doi.org/10.1145/3491102.3501822>

5 - Sponsorship

- Who: Xunhui Zhang, Tao Wang, Yue Yu, Qiubing Zeng, Zhixing Li, and Huaimin Wang - China.
- Why: Sponsorship mechanism added to Github

Xunhui Zhang, Tao Wang, Yue Yu, Qiubing Zeng, Zhixing Li, and Huaimin Wang. 2022. Who, What, Why and How? Towards the Monetary Incentive in Crowd Collaboration: A Case Study of Github's Sponsor Mechanism. In CHI Conference on Human Factors in Computing Systems (CHI '22), April 29-May 5, 2022, New Orleans, LA, USA. ACM, New York, NY, USA, 18 pages.
<https://doi.org/10.1145/3491102.3501822>

5 - Sponsorship

- Who: Xunhui Zhang, Tao Wang, Yue Yu, Qiubing Zeng, Zhixing Li, and Huaimin Wang - China.
- Why: Sponsorship mechanism added to Github
- How: Survey sponsors, recipients, and would-be recipients

Xunhui Zhang, Tao Wang, Yue Yu, Qiubing Zeng, Zhixing Li, and Huaimin Wang. 2022. Who, What, Why and How? Towards the Monetary Incentive in Crowd Collaboration: A Case Study of Github's Sponsor Mechanism. In CHI Conference on Human Factors in Computing Systems (CHI '22), April 29-May 5, 2022, New Orleans, LA, USA. ACM, New York, NY, USA, 18 pages.
<https://doi.org/10.1145/3491102.3501822>

5 - Sponsorship

- Who: Xunhui Zhang, Tao Wang, Yue Yu, Qiubing Zeng, Zhixing Li, and Huaimin Wang - China.
- Why: Sponsorship mechanism added to Github
- How: Survey sponsors, recipients, and would-be recipients
- Key Finding: Short-term impact, low dollar value. Too focused on the individual?

Xunhui Zhang, Tao Wang, Yue Yu, Qiubing Zeng, Zhixing Li, and Huaimin Wang. 2022. Who, What, Why and How? Towards the Monetary Incentive in Crowd Collaboration: A Case Study of Github's Sponsor Mechanism. In CHI Conference on Human Factors in Computing Systems (CHI '22), April 29-May 5, 2022, New Orleans, LA, USA. ACM, New York, NY, USA, 18 pages.
<https://doi.org/10.1145/3491102.3501822>

6 - Social Media for FLOSS Attention

- Who: Hongbo Fang, Hemank Lamba, James Herbsleb, Bogdan Vasilescu – Carnegie Mellon, USA

“This Is Damn Slick!” Estimating the Impact of Tweets on Open Source Project Popularity and New Contributors. Fang, H., Lamba, H., Herbsleb, J., and Vasilescu, B. International Conference on Software Engineering, ICSE, ACM (2022).

6 - Social Media for FLOSS Attention

- Who: Hongbo Fang, Hemank Lamba, James Herbsleb, Bogdan Vasilescu – Carnegie Mellon, USA
- Why: What's the impact of social media on FLOSS?

“This Is Damn Slick!” Estimating the Impact of Tweets on Open Source Project Popularity and New Contributors. Fang, H., Lamba, H., Herbsleb, J., and Vasilescu, B. International Conference on Software Engineering, ICSE, ACM (2022).

6 - Social Media for FLOSS Attention

- Who: Hongbo Fang, Hemank Lamba, James Herbsleb, Bogdan Vasilescu – Carnegie Mellon, USA
- Why: What's the impact of social media on FLOSS?
- How: Studying Twitter and GitHub

“This Is Damn Slick!” Estimating the Impact of Tweets on Open Source Project Popularity and New Contributors. Fang, H., Lamba, H., Herbsleb, J., and Vasilescu, B. International Conference on Software Engineering, ICSE, ACM (2022).

6 - Social Media for FLOSS Attention

- Who: Hongbo Fang, Hemank Lamba, James Herbsleb, Bogdan Vasilescu – Carnegie Mellon, USA
- Why: What's the impact of social media on FLOSS?
- How: Studying Twitter and GitHub
- Key Finding: Tweeting works — especially if you want folks who are newcomers to FLOSS.

“This Is Damn Slick!” Estimating the Impact of Tweets on Open Source Project Popularity and New Contributors. Fang, H., Lamba, H., Herbsleb, J., and Vasilescu, B. International Conference on Software Engineering, ICSE, ACM (2022).

7 - Toxicity and Unnecessary Pushback

- Who: Huilian Sophie Qiu, Bogdan Vasilescu, Christian Kastner, Carolyn Egelman, Ciera Jaspan, Emerson Murphy-Hill – US

Huilian Sophie Qiu, Bogdan Vasilescu, Christian Kastner, Carolyn Egelman, Ciera Jaspan, Emerson Murphy-Hill. 2022. A Detecting Interpersonal Conflict in Issues and Code Review: Cross Pollinating Open- and Closed-Source Approaches. In Software Engineering in Society (ICSE-SEIS'22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 15 pages.
<https://cmustrudel.github.io/papers/seis22pushback.pdf>

7 - Toxicity and Unnecessary Pushback

- Who: Huilian Sophie Qiu, Bogdan Vasilescu, Christian Kastner, Carolyn Egelman, Ciera Jaspán, Emerson Murphy-Hill – US
- Why: Toxicity and unnecessary pushback are stressful and wasteful

Huilian Sophie Qiu, Bogdan Vasilescu, Christian Kastner, Carolyn Egelman, Ciera Jaspán, Emerson Murphy-Hill. 2022. A Detecting Interpersonal Conflict in Issues and Code Review: Cross Pollinating Open- and Closed-Source Approaches. In Software Engineering in Society (ICSE-SEIS'22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 15 pages.
<https://cmustrudel.github.io/papers/seis22pushback.pdf>

7 - Toxicity and Unnecessary Pushback

- Who: Huilian Sophie Qiu, Bogdan Vasilescu, Christian Kastner, Carolyn Egelman, Ciera Jaspan, Emerson Murphy-Hill – US
- Why: Toxicity and unnecessary pushback are stressful and wasteful
- How: analyzing text and log data

Huilian Sophie Qiu, Bogdan Vasilescu, Christian Kastner, Carolyn Egelman, Ciera Jaspan, Emerson Murphy-Hill. 2022. ADetecting Interpersonal Conflict in Issues and Code Review: Cross Pollinating Open- and Closed-Source Approaches. In Software Engineering in Society (ICSE-SEIS'22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 15 pages.
<https://cmustrudel.github.io/papers/seis22pushback.pdf>

7 - Toxicity and Unnecessary Pushback

- Who: Huilian Sophie Qiu, Bogdan Vasilescu, Christian Kastner, Carolyn Egelman, Ciera Jaspan, Emerson Murphy-Hill – US
- Why: Toxicity and unnecessary pushback are stressful and wasteful
- How: analyzing text and log data
- Key Finding: Usage of “you” is a signal a review might be toxic. Toxicity signals unnecessary pushback.

Huilian Sophie Qiu, Bogdan Vasilescu, Christian Kastner, Carolyn Egelman, Ciera Jaspan, Emerson Murphy-Hill. 2022. ADetecting Interpersonal Conflict in Issues and Code Review: Cross Pollinating Open- and Closed-Source Approaches. In Software Engineering in Society (ICSE-SEIS'22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 15 pages.
<https://cmustrudel.github.io/papers/seis22pushback.pdf>

8 - Global Communities: Culture and Geography

- Who: Stefano Lambiase, Gemma Catolino, Damian A. Tamburri, Alexander Serebrenik, Fabio Palomba, and Filomena Ferrucci (Italy, the Netherlands)

Stefano Lambiase, Gemma Catolino, Damian A. Tamburri, Alexander Serebrenik, Fabio Palomba, and Filomena Ferrucci. 2022. Good Fences Make Good Neighbours? On the Impact of Cultural and Geographical Dispersion on Community Smells. In Software Engineering in Society (ICSE-SEIS'22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 12 pages.
<https://doi.org/10.1145/3510458.3513015>

8 - Global Communities: Culture and Geography

- Who: Stefano Lambiase, Gemma Catolino, Damian A. Tamburri, Alexander Serebrenik, Fabio Palomba, and Filomena Ferrucci (Italy, the Netherlands)
- Why: FLOSS Communities are geographically and culturally diverse – does it matter?

Stefano Lambiase, Gemma Catolino, Damian A. Tamburri, Alexander Serebrenik, Fabio Palomba, and Filomena Ferrucci. 2022. Good Fences Make Good Neighbours? On the Impact of Cultural and Geographical Dispersion on Community Smells. In Software Engineering in Society (ICSE-SEIS'22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 12 pages.
<https://doi.org/10.1145/3510458.3513015>

8 - Global Communities: Culture and Geography

- Who: Stefano Lambiase, Gemma Catolino, Damian A. Tamburri, Alexander Serebrenik, Fabio Palomba, and Filomena Ferrucci (Italy, the Netherlands)
- Why: FLOSS Communities are geographically and culturally diverse – does it matter?
- How: Mining Github: contributor network analysis, location analysis

Stefano Lambiase, Gemma Catolino, Damian A. Tamburri, Alexander Serebrenik, Fabio Palomba, and Filomena Ferrucci. 2022. Good Fences Make Good Neighbours? On the Impact of Cultural and Geographical Dispersion on Community Smells. In Software Engineering in Society (ICSE-SEIS'22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 12 pages.
<https://doi.org/10.1145/3510458.3513015>

8 - Global Communities: Culture and Geography

- Who: Stefano Lambiase, Gemma Catolino, Damian A. Tamburri, Alexander Serebrenik, Fabio Palomba, and Filomena Ferrucci (Italy, the Netherlands)
- Why: FLOSS Communities are geographically and culturally diverse – does it matter?
- How: Mining Github: contributor network analysis, location analysis
- Key Finding: Geographical dispersion introduces organizational trade-offs; high concentration of participants from individualistic cultures may increase risk of “lone wolves”

Stefano Lambiase, Gemma Catolino, Damian A. Tamburri, Alexander Serebrenik, Fabio Palomba, and Filomena Ferrucci. 2022. Good Fences Make Good Neighbours? On the Impact of Cultural and Geographical Dispersion on Community Smells. In Software Engineering in Society (ICSE-SEIS'22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 12 pages.
<https://doi.org/10.1145/3510458.3513015>

- Who: Yingchen Tian, Yuxia Zhang, Klaas-Jan Stol, Lin Jiang, Hui Liu – China, Ireland

Yingchen Tian, Yuxia Zhang, Klaas-Jan Stol, Lin Jiang, and Hui Liu.
2022. What Makes a Good Commit Message?. In 44th International
Conference on Software Engineering (ICSE '22), May 21–29, 2022,
Pittsburgh, PA, USA. ACM, New York, NY, USA, 13 pages.
<https://doi.org/10.1145/3510003.3510205>

9 - Commit Messages

- Who: Yingchen Tian, Yuxia Zhang, Klaas-Jan Stol, Lin Jiang, Hui Liu – China, Ireland
- Why: Commits are important but under-examined

Yingchen Tian, Yuxia Zhang, Klaas-Jan Stol, Lin Jiang, and Hui Liu. 2022. What Makes a Good Commit Message?. In 44th International Conference on Software Engineering (ICSE '22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 13 pages.
<https://doi.org/10.1145/3510003.3510205>

9 - Commit Messages

- Who: Yingchen Tian, Yuxia Zhang, Klaas-Jan Stol, Lin Jiang, Hui Liu – China, Ireland
- Why: Commits are important but under-examined
- How: 1600 commit messages, 5 projects

Yingchen Tian, Yuxia Zhang, Klaas-Jan Stol, Lin Jiang, and Hui Liu. 2022. What Makes a Good Commit Message?. In 44th International Conference on Software Engineering (ICSE '22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 13 pages. <https://doi.org/10.1145/3510003.3510205>

9 - Commit Messages

- Who: Yingchen Tian, Yuxia Zhang, Klaas-Jan Stol, Lin Jiang, Hui Liu – China, Ireland
- Why: Commits are important but under-examined
- How: 1600 commit messages, 5 projects
- Key Finding: 44% of commits don't explain “what” they do or “why” the work was done (...or are missing both elements!).

Yingchen Tian, Yuxia Zhang, Klaas-Jan Stol, Lin Jiang, and Hui Liu. 2022. What Makes a Good Commit Message?. In 44th International Conference on Software Engineering (ICSE '22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 13 pages. <https://doi.org/10.1145/3510003.3510205>

[3rd Avenue curbs filled with buses at rush hour. SounderBruce via flickr, CC BY-SA 2.0]

- Who: Elgun Jabrayilzade, Mikhail Evtikyhiev, Eray Tuzun, Vladimir Kovalenko—Turkey, Russia, The Netherlands

Elgun Jabrayilzade, Mikhail Evtikhiev, Eray Tüzün, Vladimir Kovalenko. 2022. Bus Factor in Practice. In 44th International Conference on Software Engineering (ICSE '22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 10 pages.
<https://arxiv.org/abs/2202.01523>

10 - The Bus Factor

- Who: Elgun Jabrayilzade, Mikhail Evtikyhiev, Eray Tuzun, Vladimir Kovalenko—Turkey, Russia, The Netherlands
- Why: Projects are at risk when key people leave

Elgun Jabrayilzade, Mikhail Evtikhiev, Eray Tüzün, Vladimir Kovalenko. 2022. Bus Factor in Practice. In 44th International Conference on Software Engineering (ICSE '22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 10 pages.
<https://arxiv.org/abs/2202.01523>

10 - The Bus Factor

- Who: Elgun Jabrayilzade, Mikhail Evtikyhiev, Eray Tuzun, Vladimir Kovalenko—Turkey, Russia, The Netherlands
- Why: Projects are at risk when key people leave
- How: Comparing measures of activity with survey results

Elgun Jabrayilzade, Mikhail Evtikhiev, Eray Tüzün, Vladimir Kovalenko. 2022. Bus Factor in Practice. In 44th International Conference on Software Engineering (ICSE '22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 10 pages.
<https://arxiv.org/abs/2202.01523>

10 - The Bus Factor

- Who: Elgun Jabrayilzade, Mikhail Evtikyhiev, Eray Tuzun, Vladimir Kovalenko—Turkey, Russia, The Netherlands
- Why: Projects are at risk when key people leave
- How: Comparing measures of activity with survey results
- Key Finding: Key people do more than just write code—and losing them can indeed stall projects.

Elgun Jabrayilzade, Mikhail Evtikhiev, Eray Tüzün, Vladimir Kovalenko. 2022. Bus Factor in Practice. In 44th International Conference on Software Engineering (ICSE '22), May 21–29, 2022, Pittsburgh, PA, USA. ACM, New York, NY, USA, 10 pages.
<https://arxiv.org/abs/2202.01523>

In Other News....:

- Funding + Community? [*ggcf - " "jjj ! VbWXYbef bV\Xgl ! beZ" \aVhUTgbe"*]

In Other News....:

- Funding + Community? [*ggcf - " "jjj ! VbWXYbef bV\Xgl ! beZ" \aVhUTgbe"*]
- Huge influx of \$\$\$ for Software Supply Chain Security

In Other News....:

- Funding + Community? [*ggcf - " "jjj ! VbWXYbef bV\Xgl ! beZ" \aVhUTgbe"*]
- Huge influx of \$\$\$ for Software Supply Chain Security
- Machine learning everywhere



SeaGL



2022 FLOSS Research In Summary....



Scale? Automate, review, document!

Foundations for community! (???)

Tag it and badge it!

Good first issues are detectable!

Money isn't everything!

Tweeting helps!

Thank You!

kaylea@uw.edu—@kayleachampion—social.coop/@kaylea—[ggcf- "" ^TI_XIV[T`c\ba! Vb`
@comdatasci—[ggcf- "" Vb` `ha\gl WgT! fV\XaVX

Toxicity is a sign of unnecessary
pushback!

Cultural diversity: hard, helpful!

Good commits state what and why!

Bus factor: real & more than code!

Incubator Opportunity - \$\$\$supply
chain - Machine Learning!