

$G_{\text{Voigt Reuss Hill}}(\text{GPa})$

1000

800

600

400

200

0

0

200

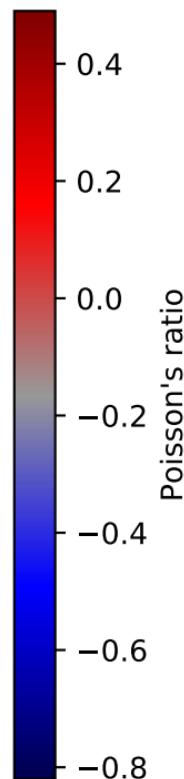
400

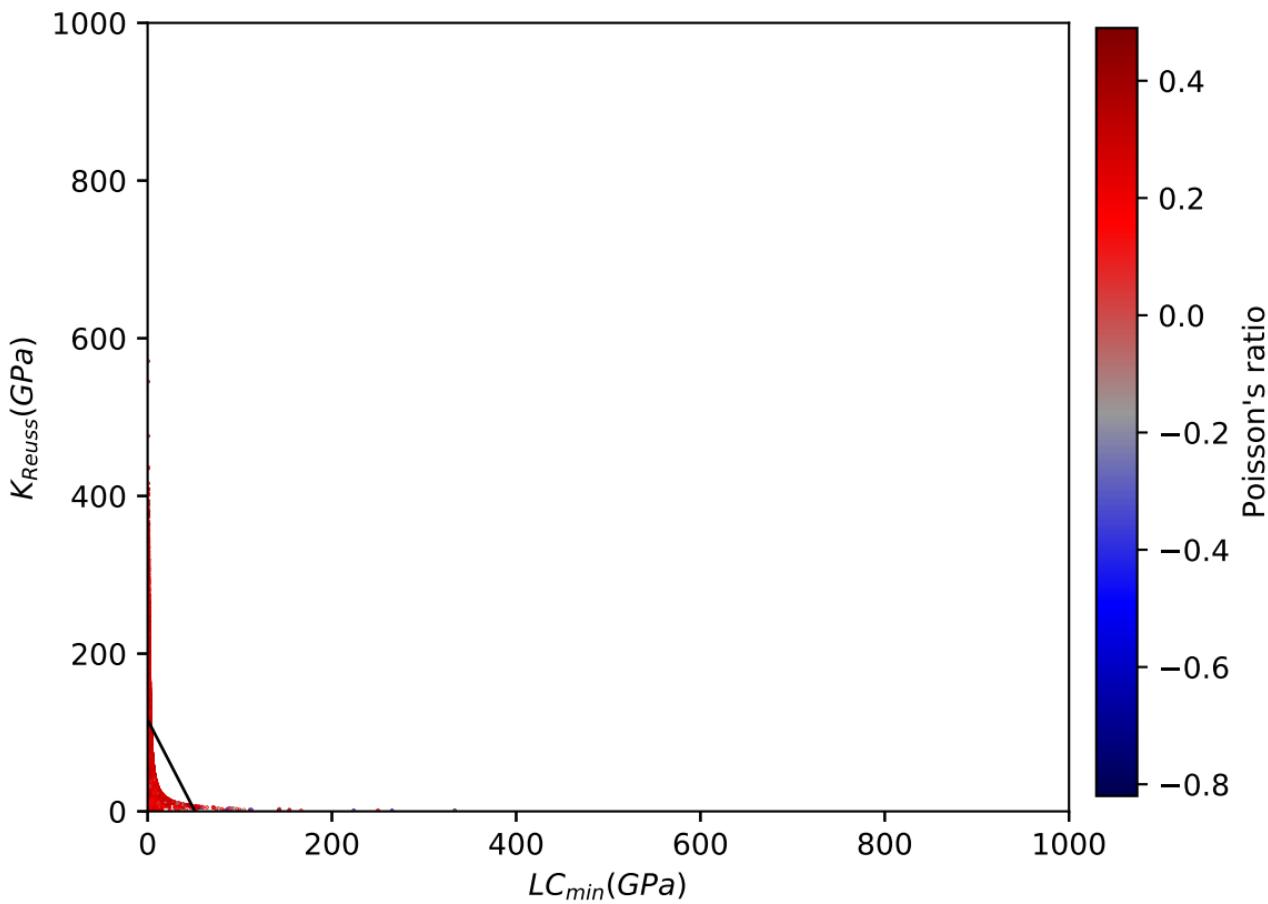
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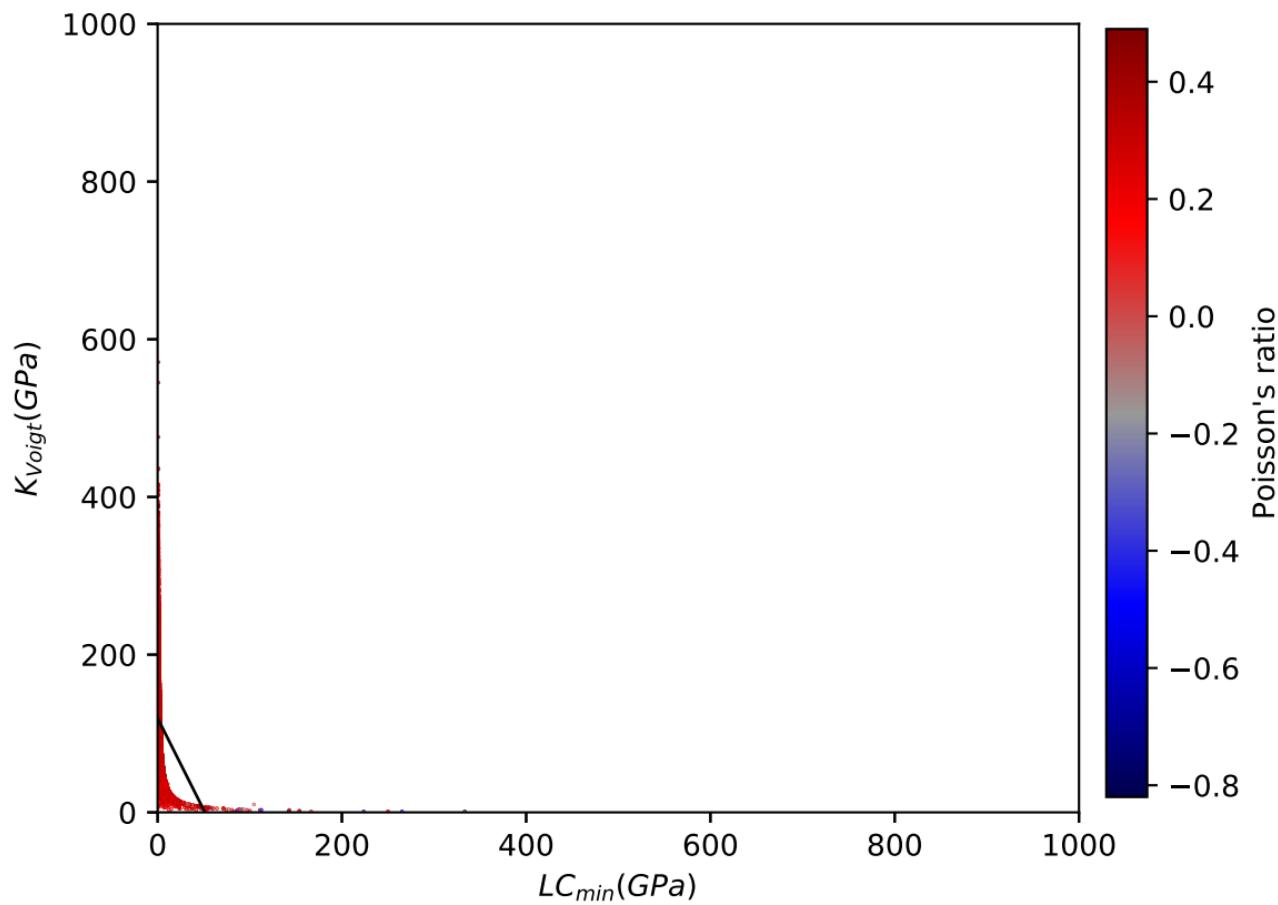
800

1000

$LC_{\min}(\text{GPa})$







$K_{V\!oigt\;R\!euss\;H\!ill}(GPa)$

1000

800

600

400

200

0

0

200

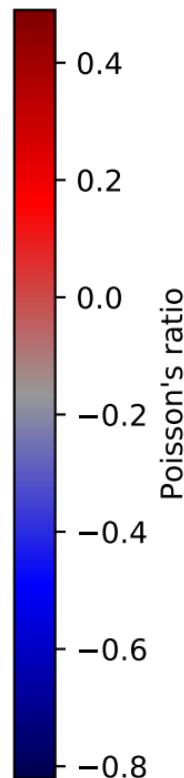
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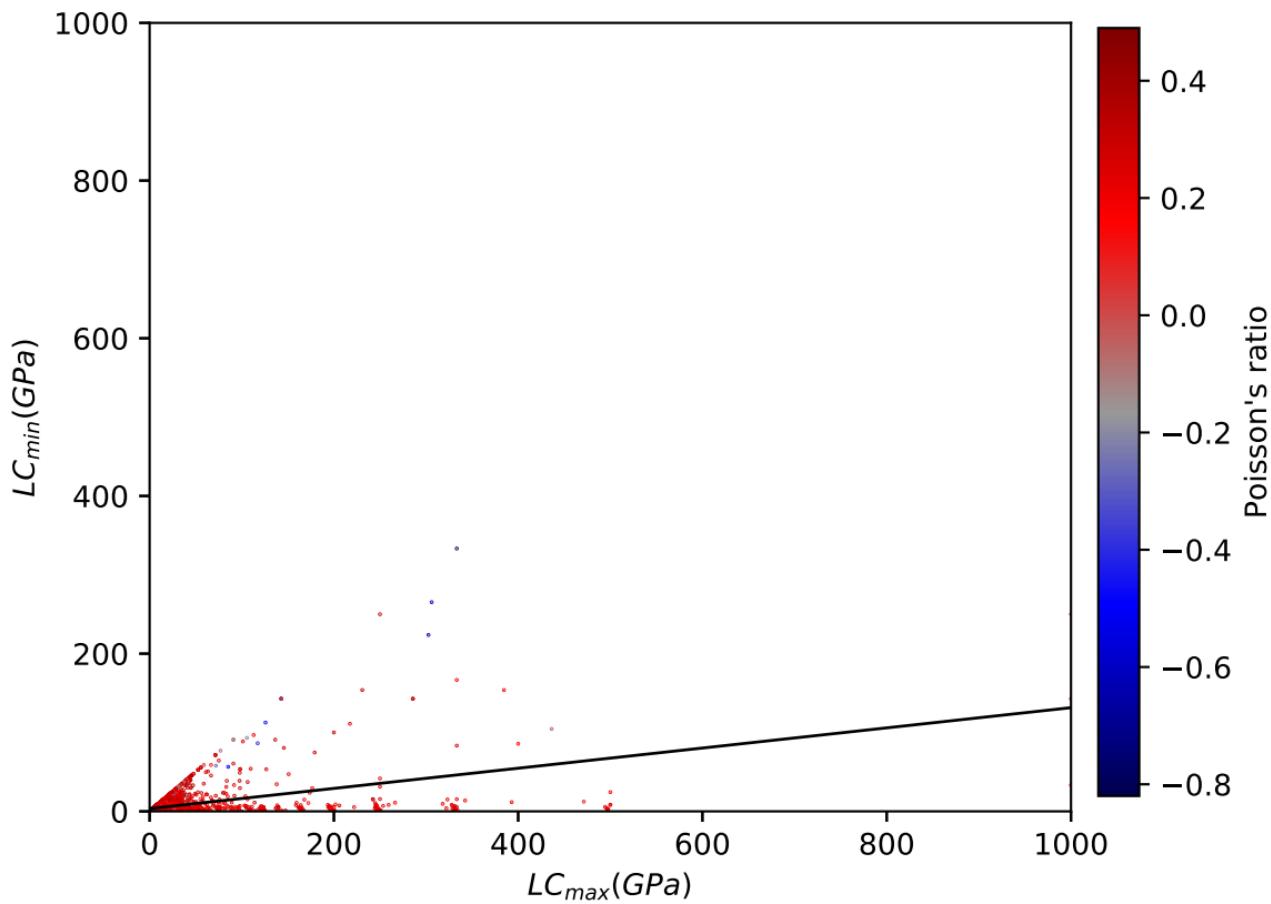
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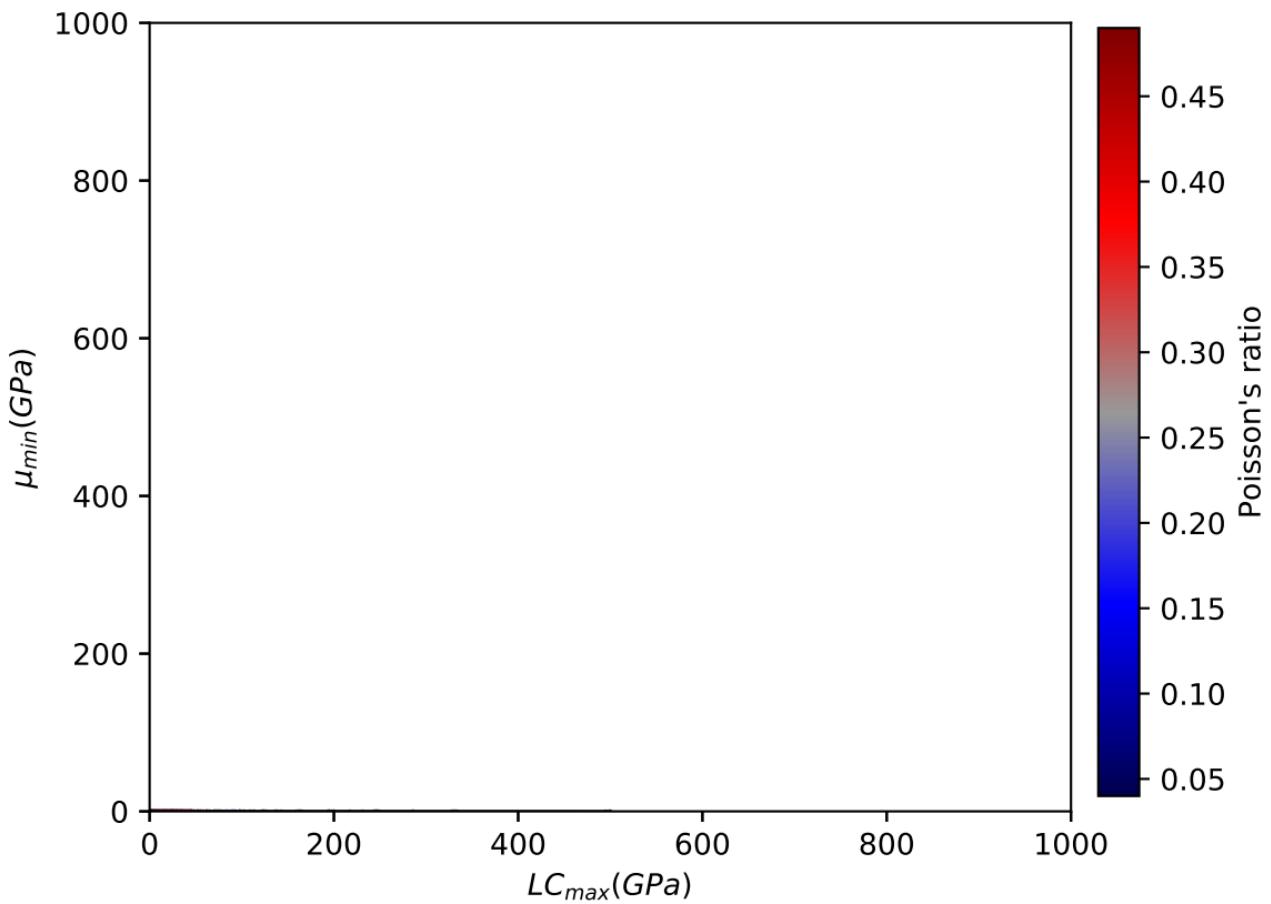
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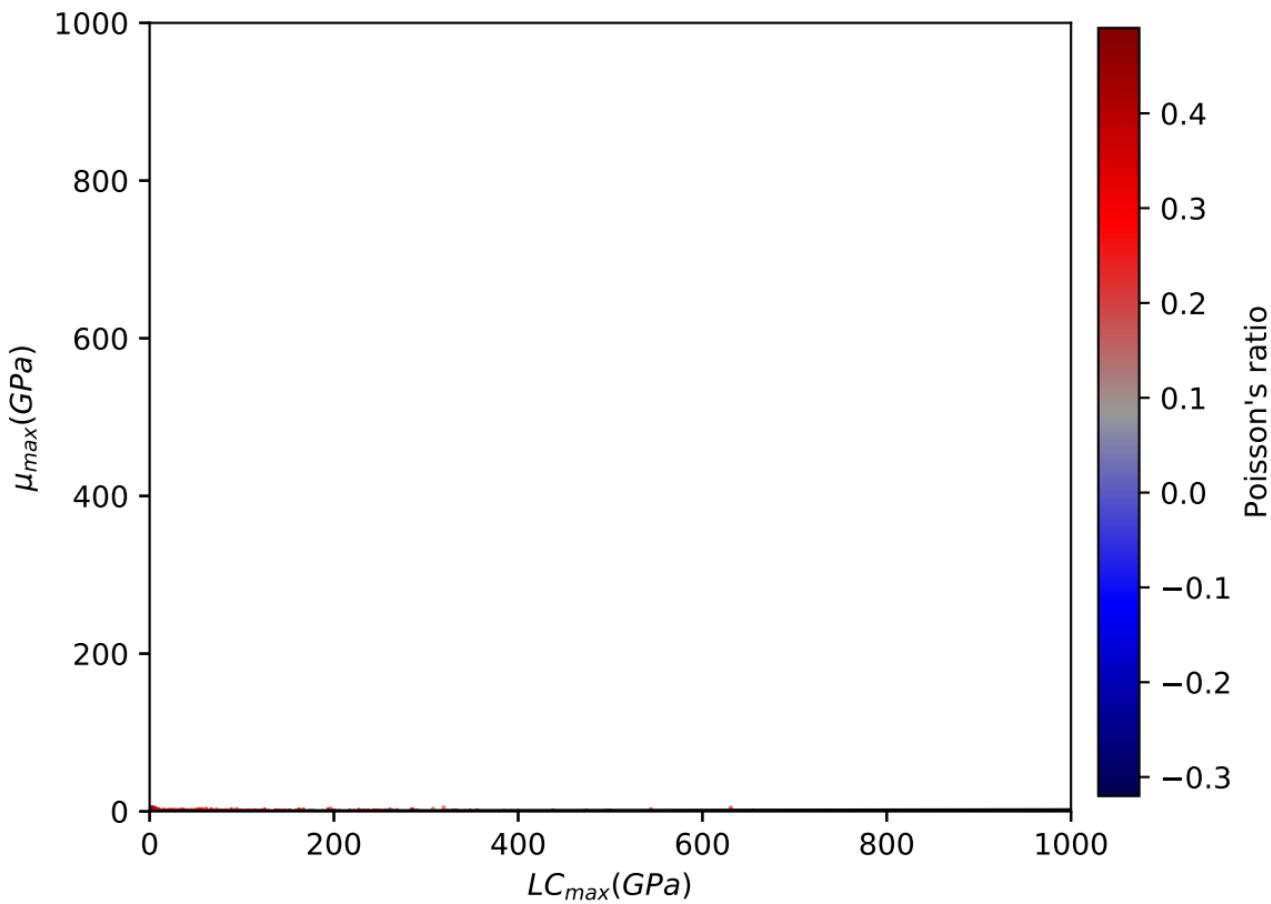
1000

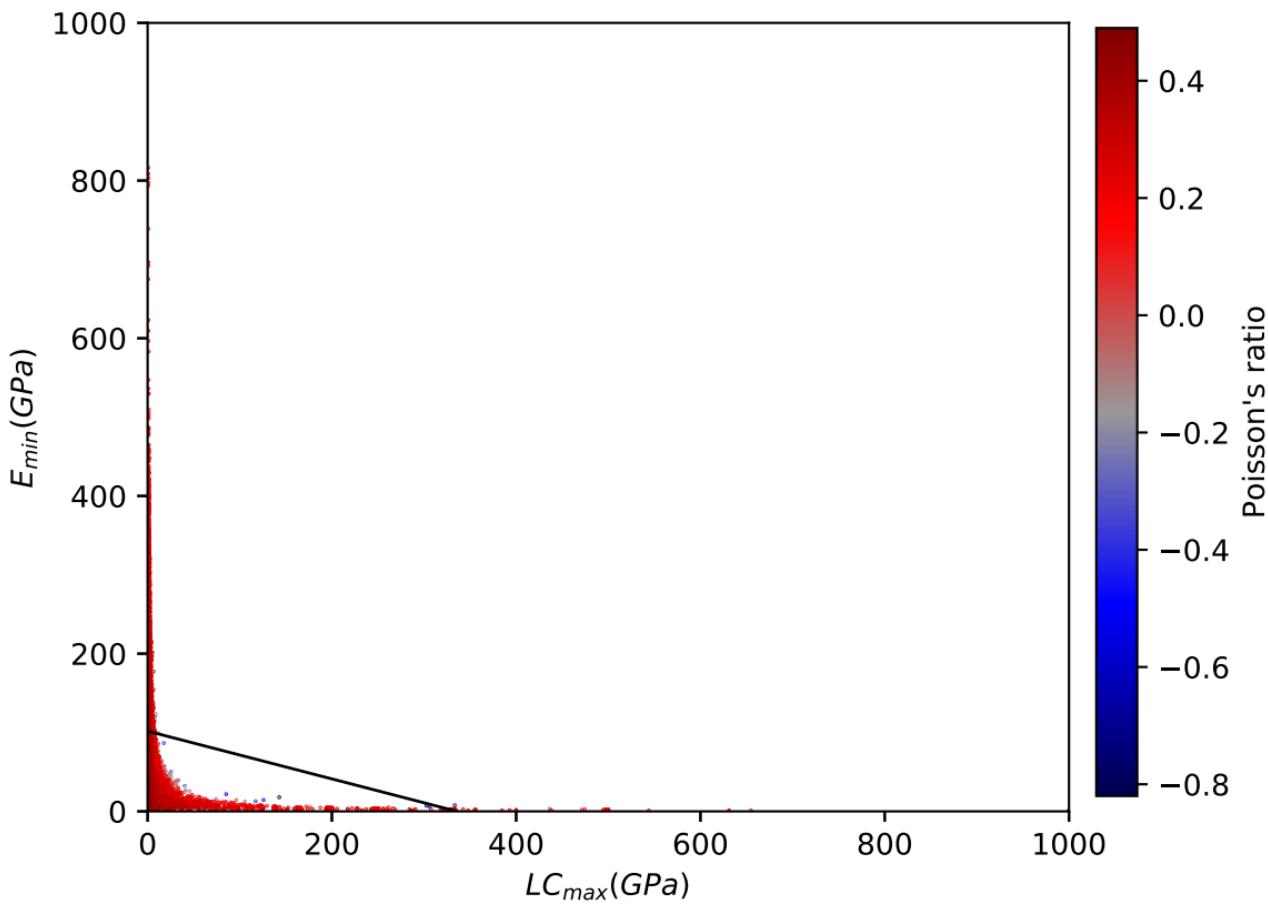
$LC_{min}(GPa)$

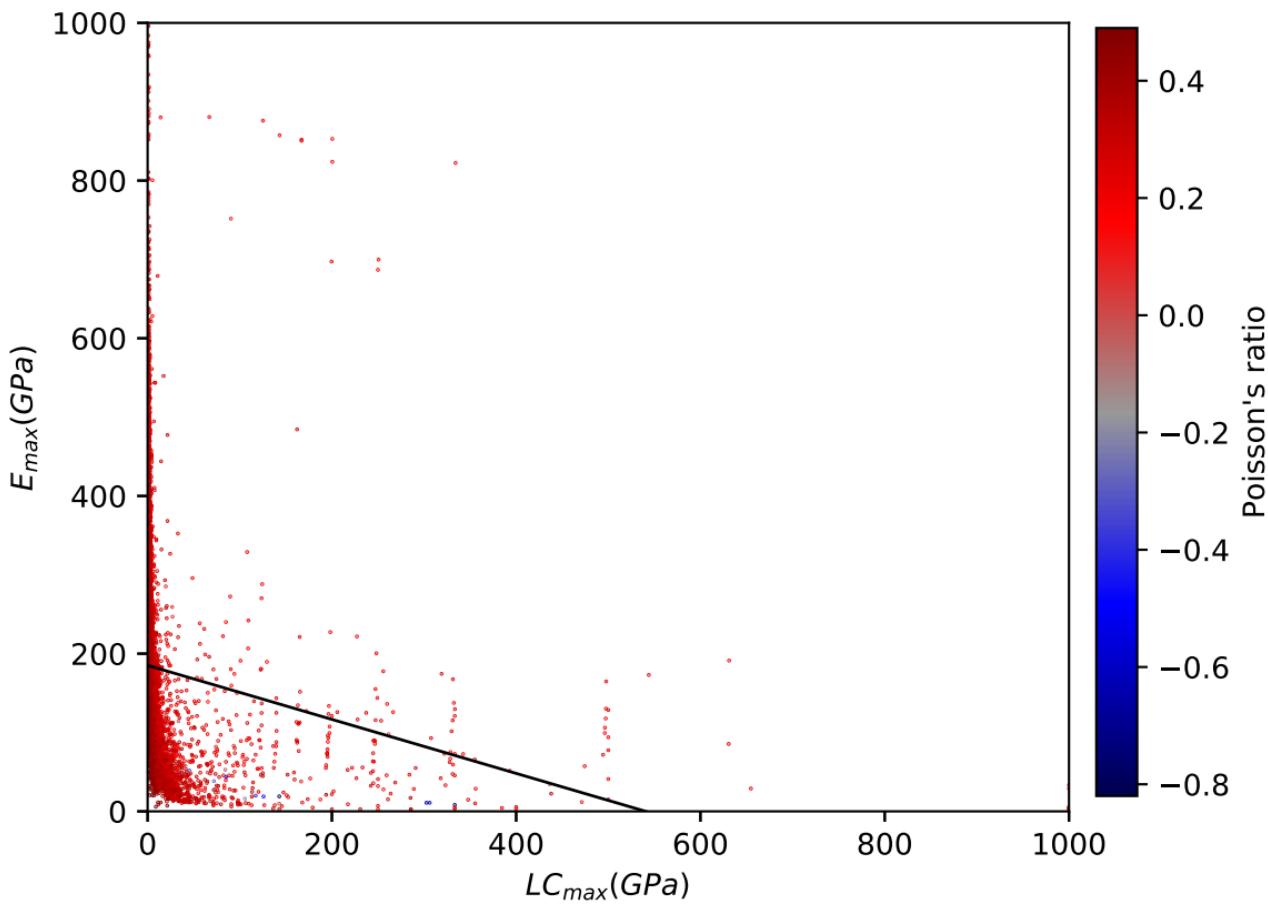


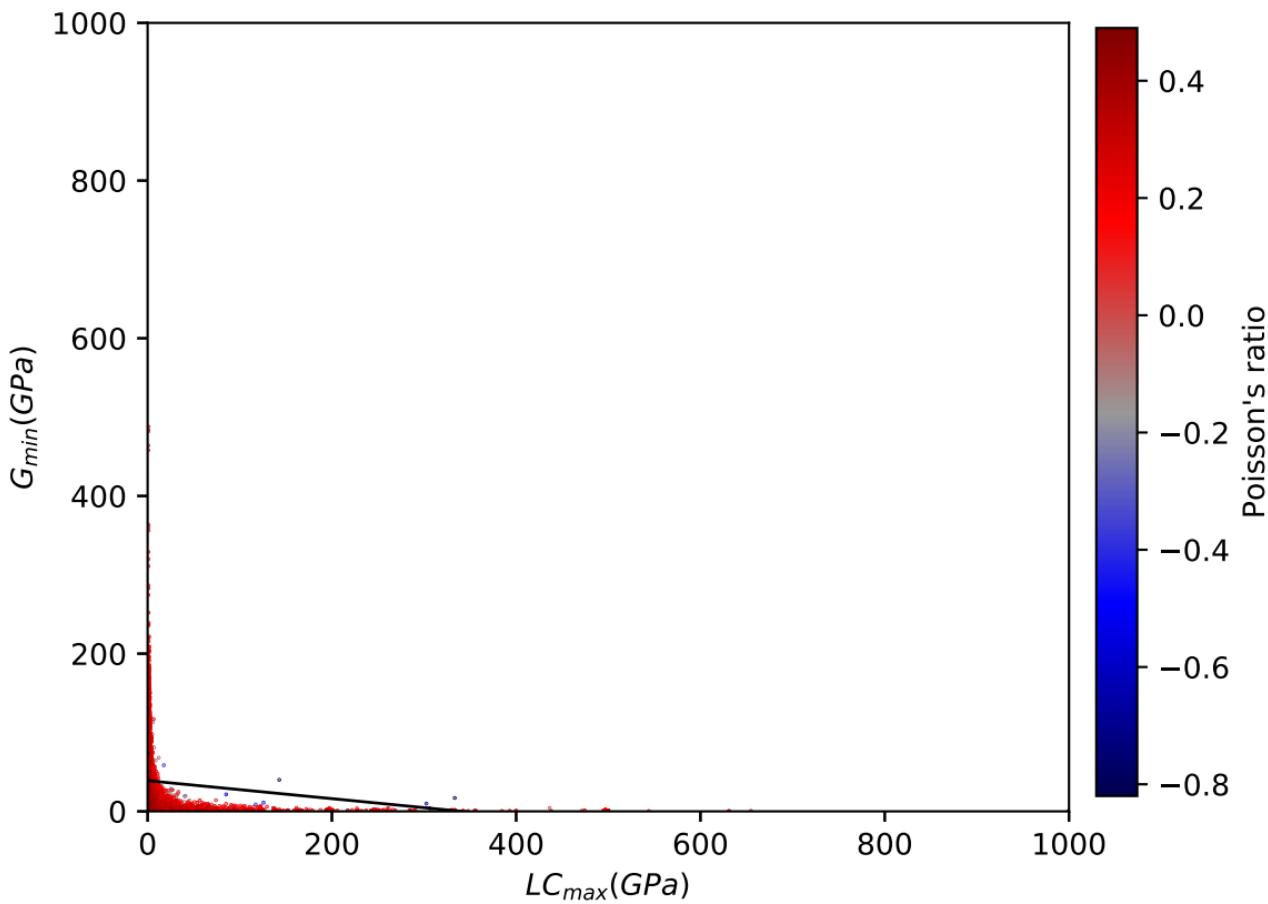


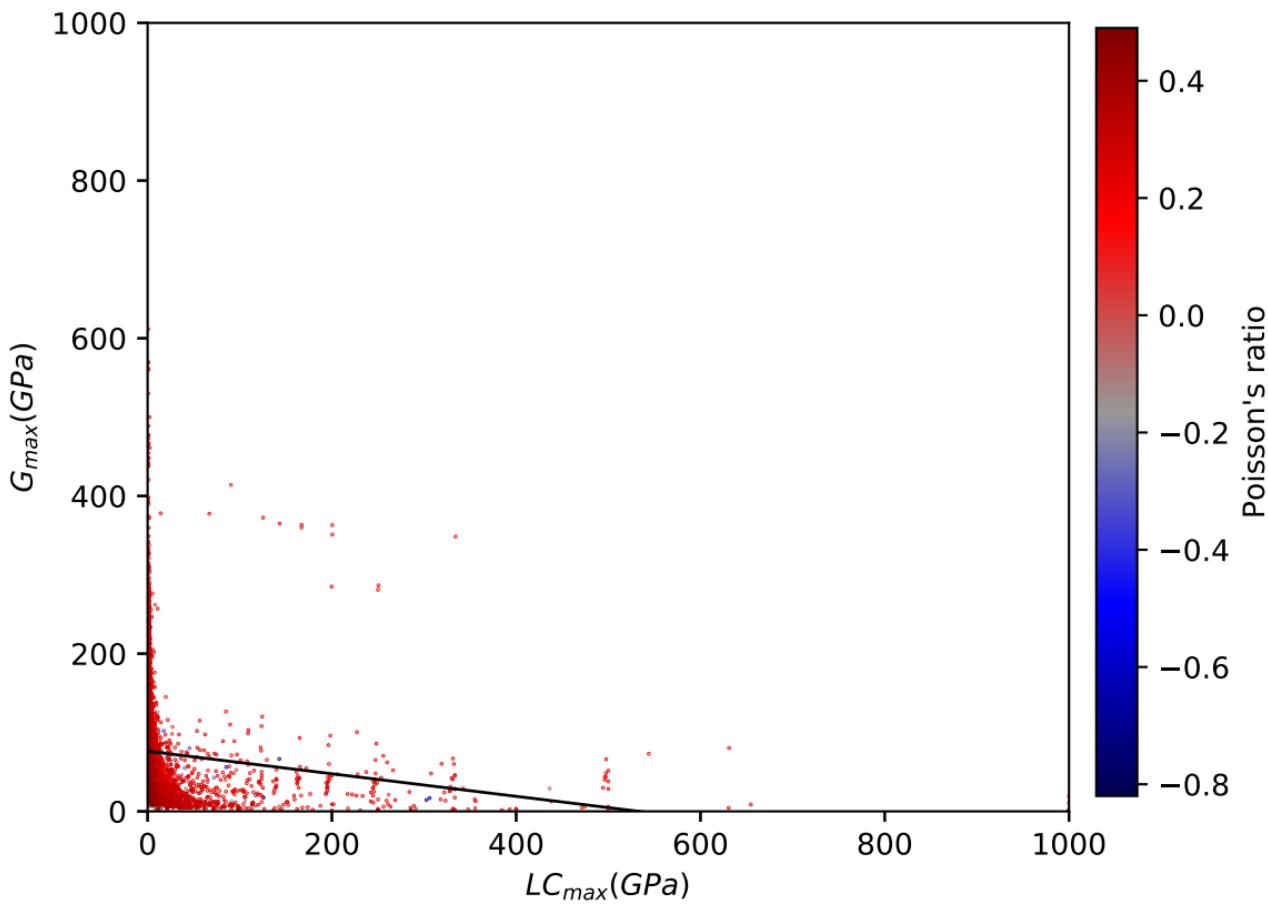


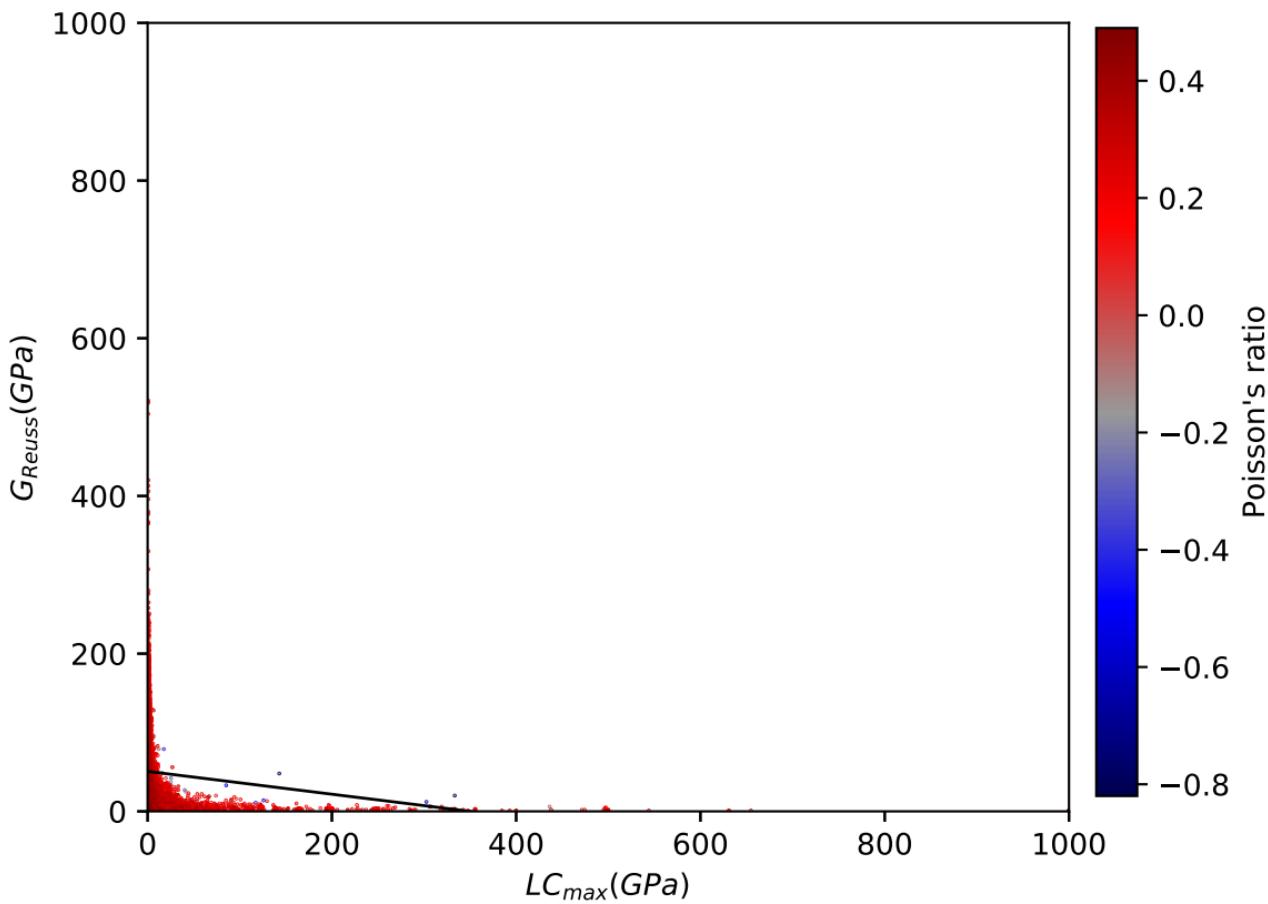


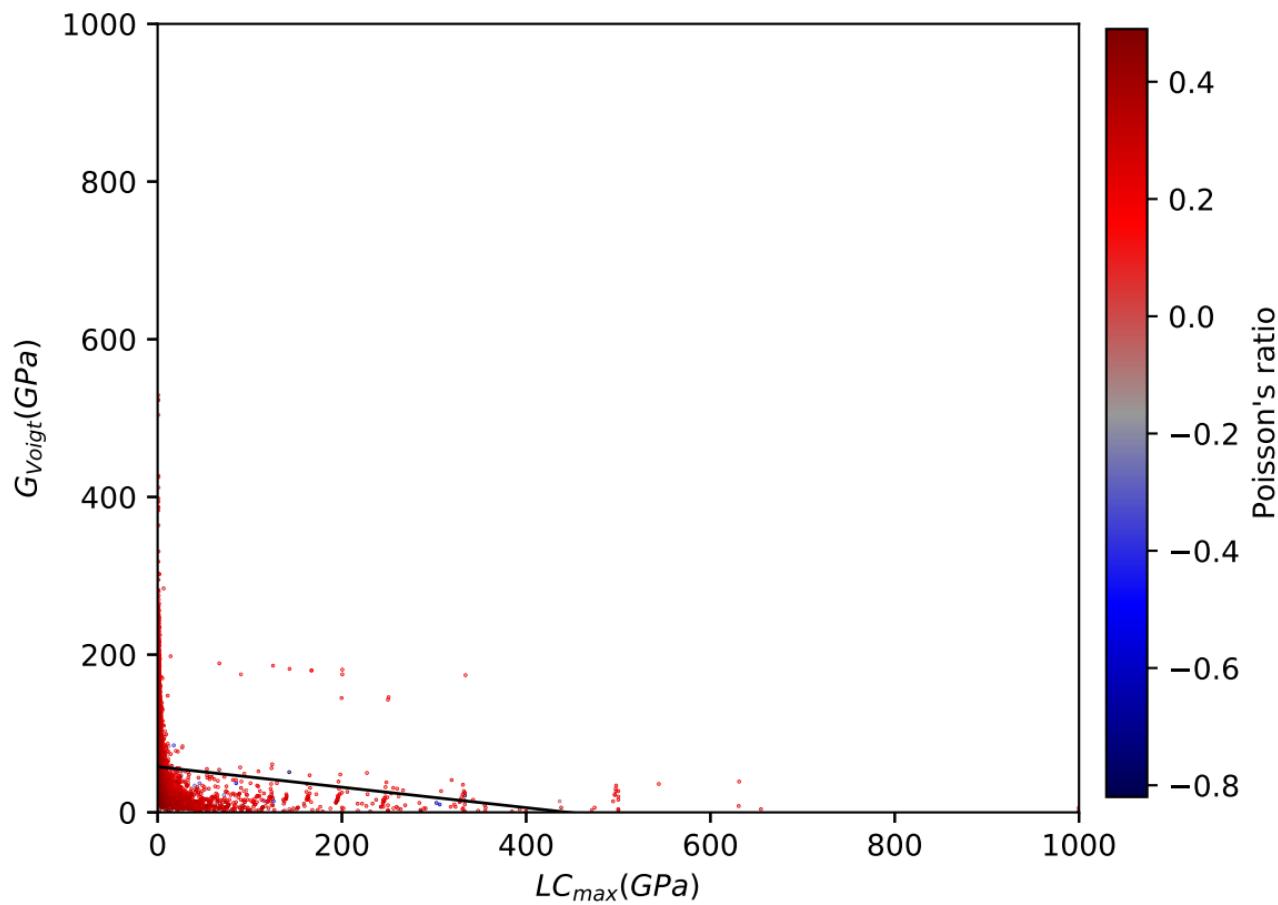


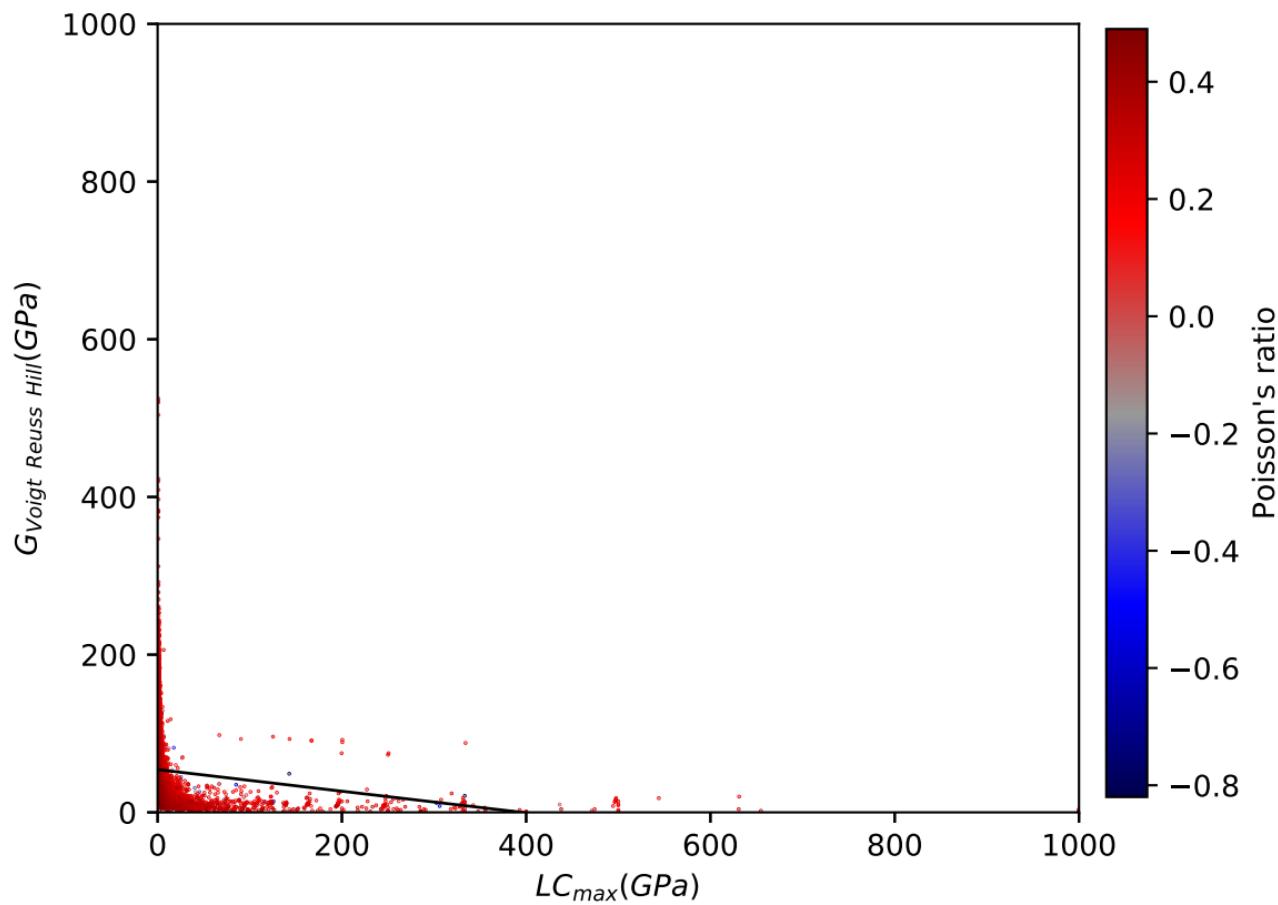


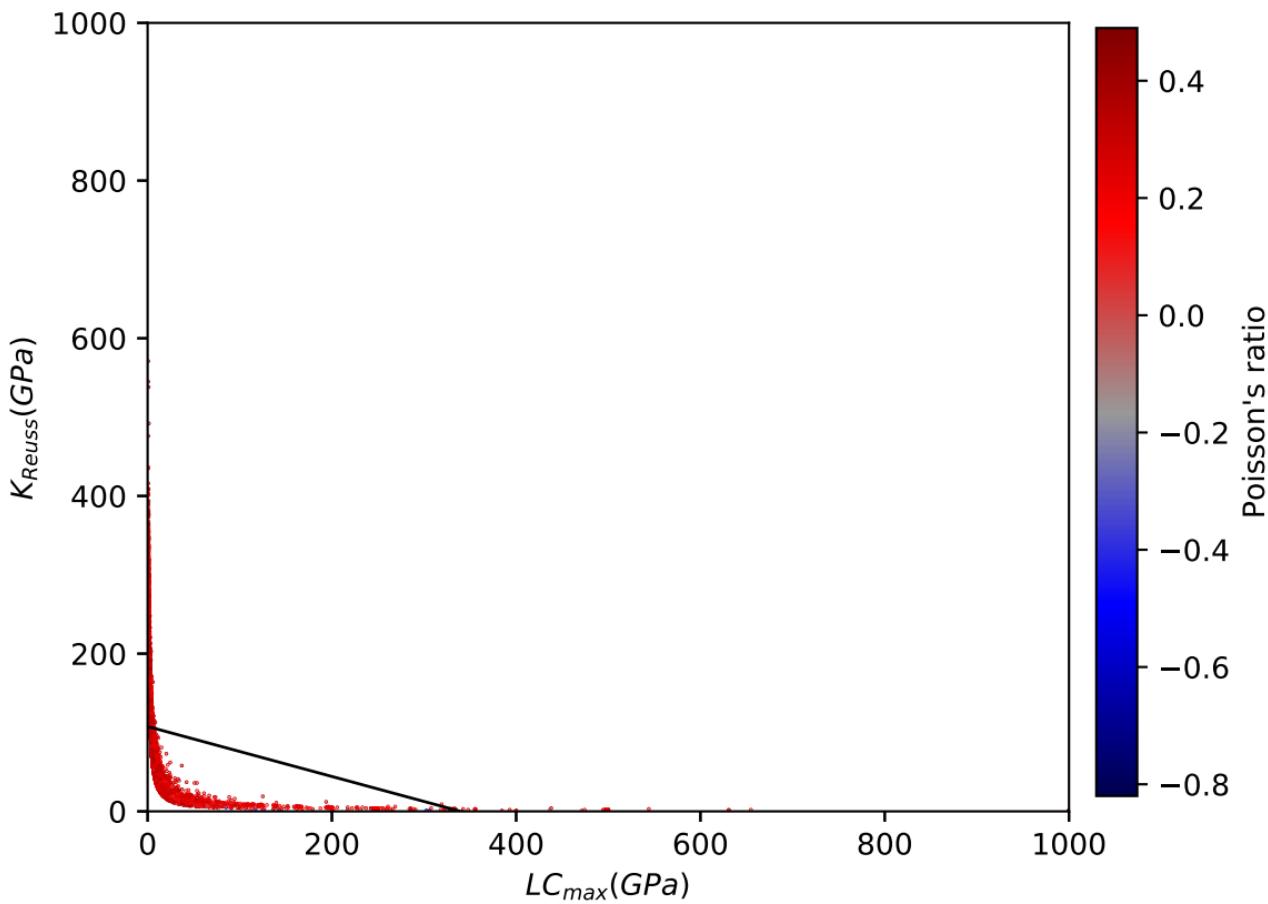


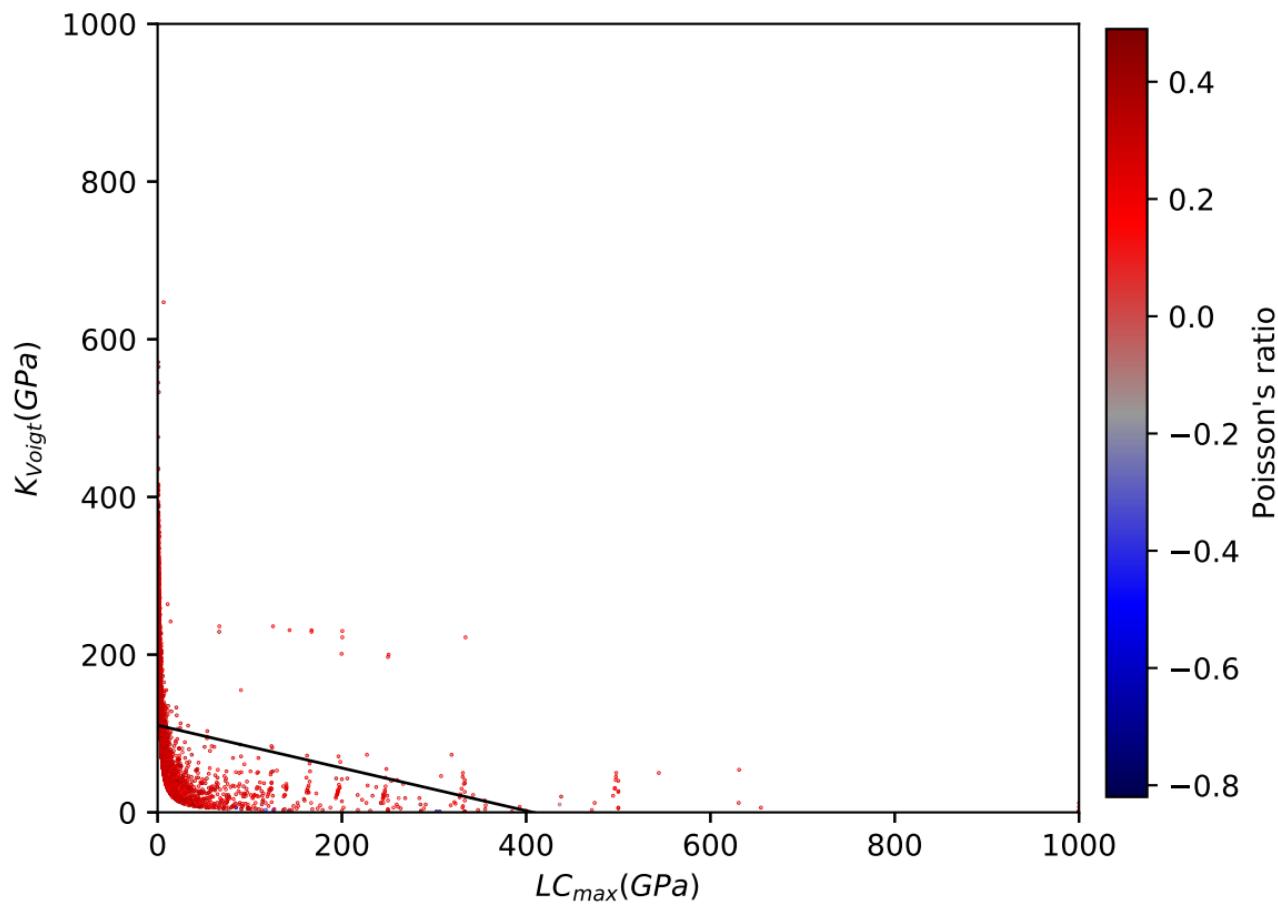


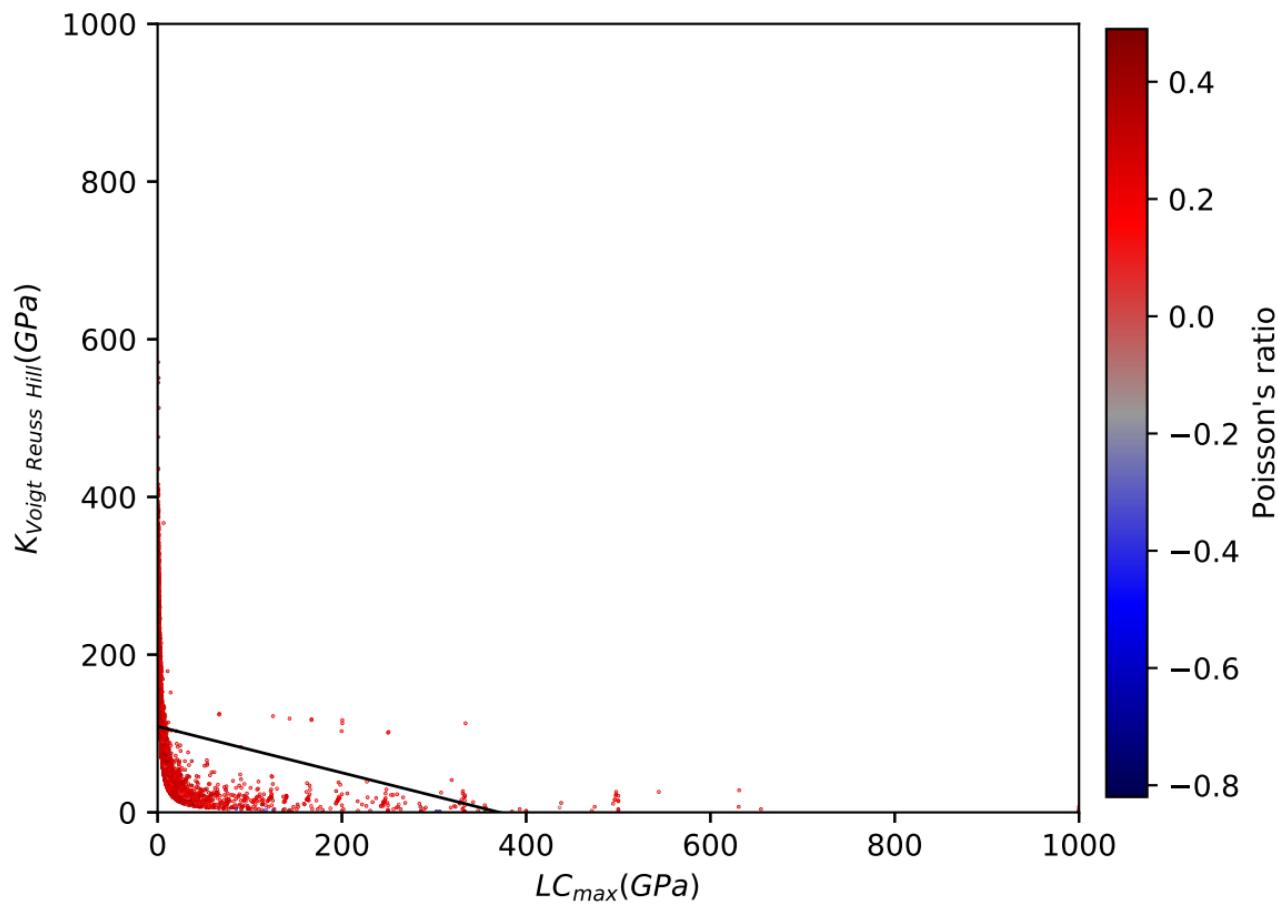


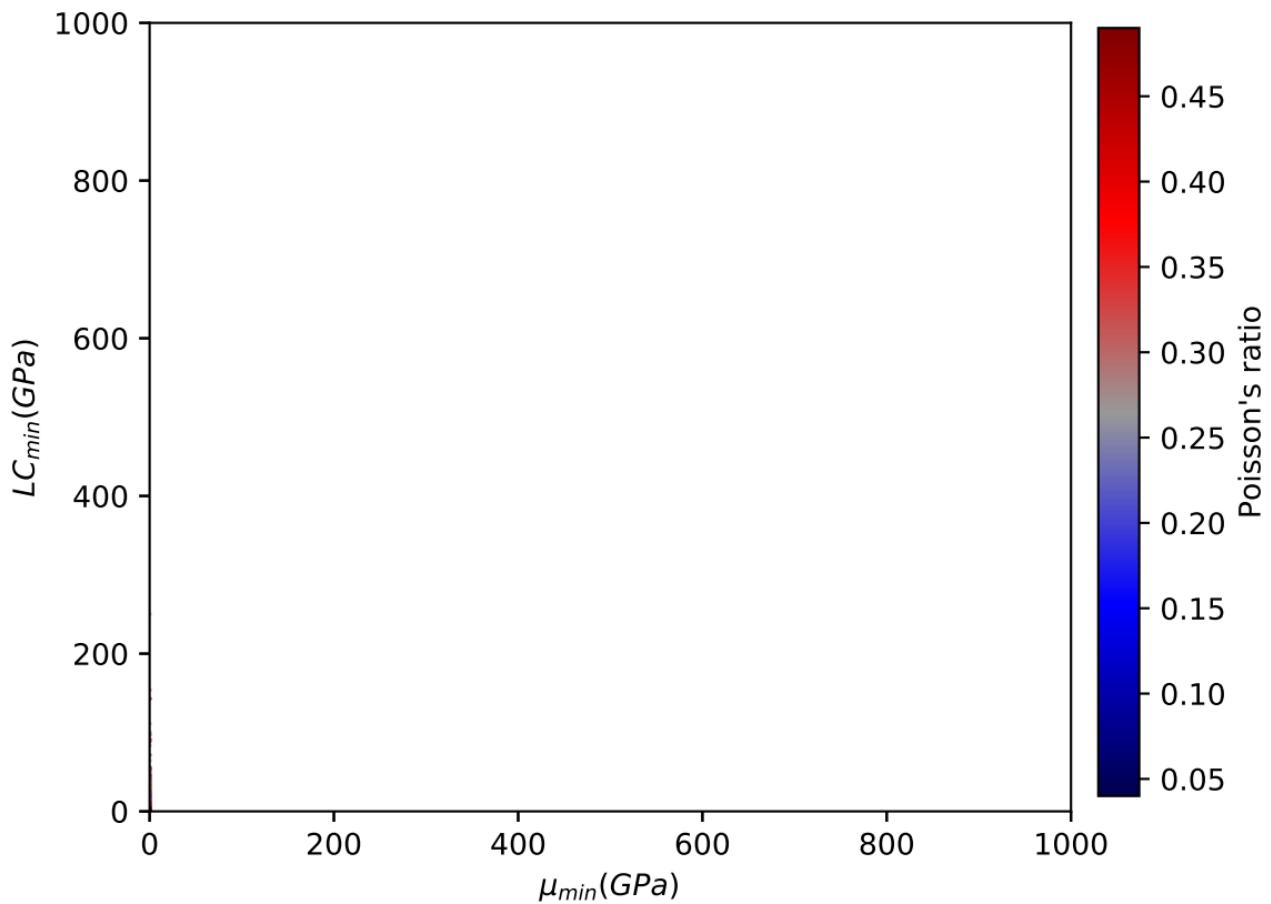


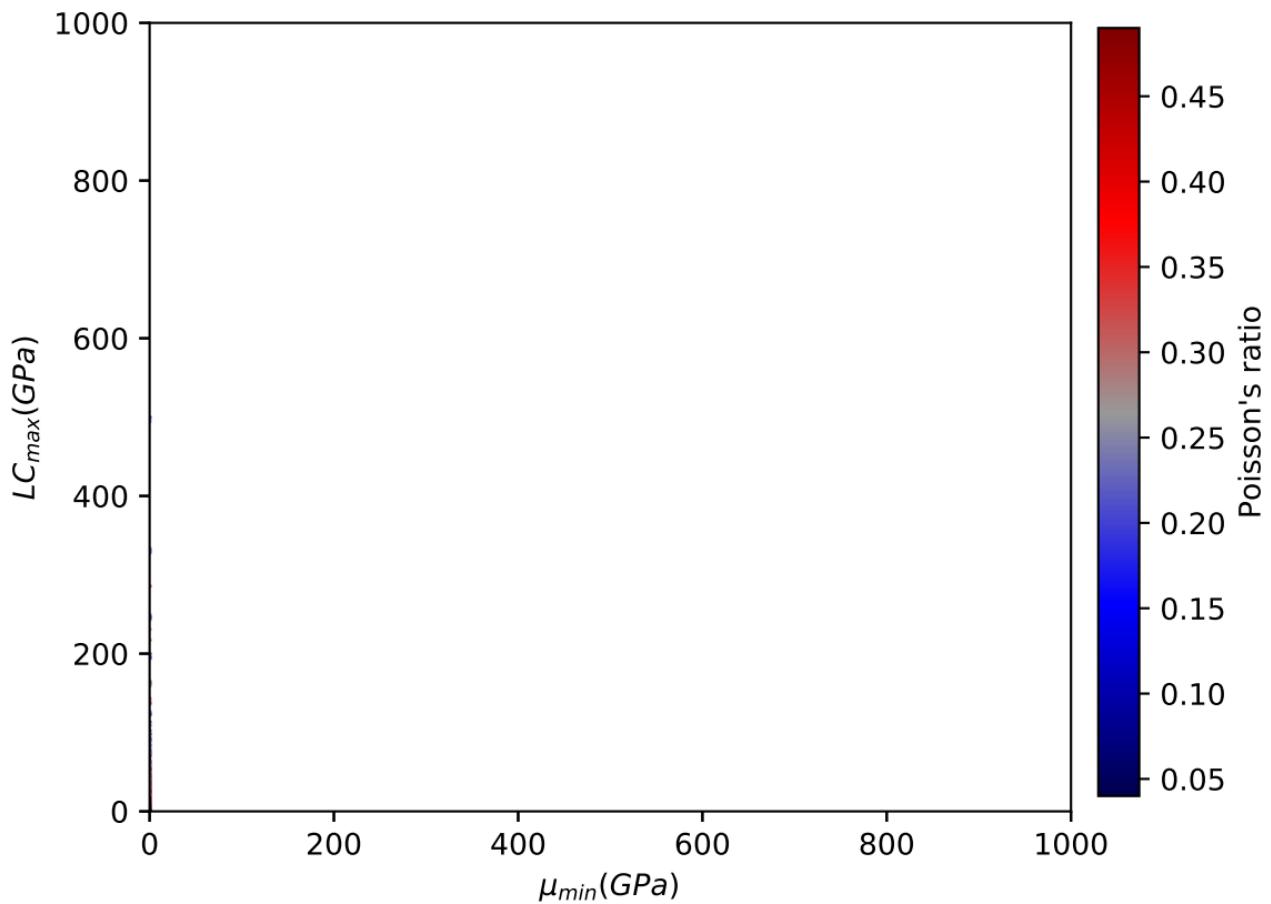


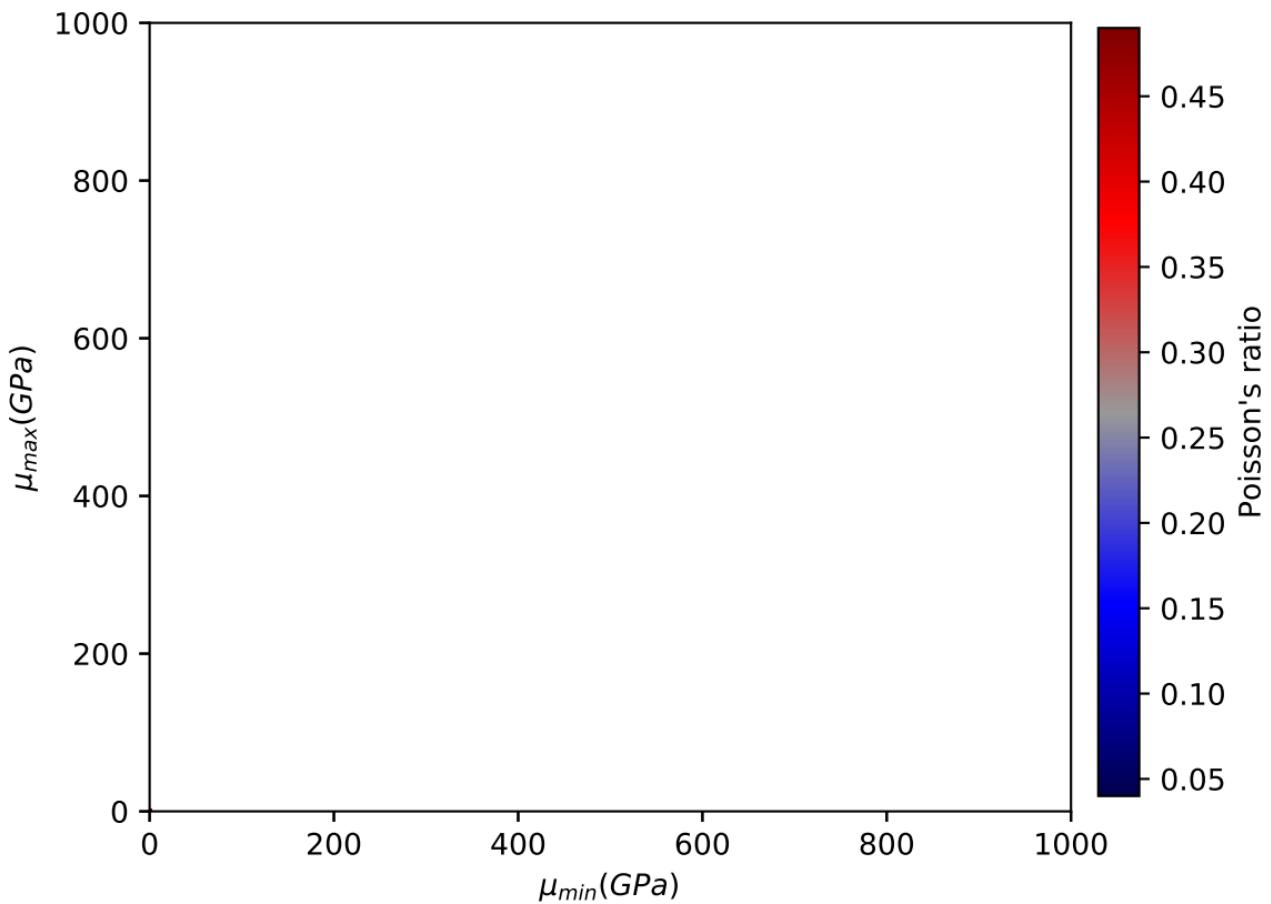


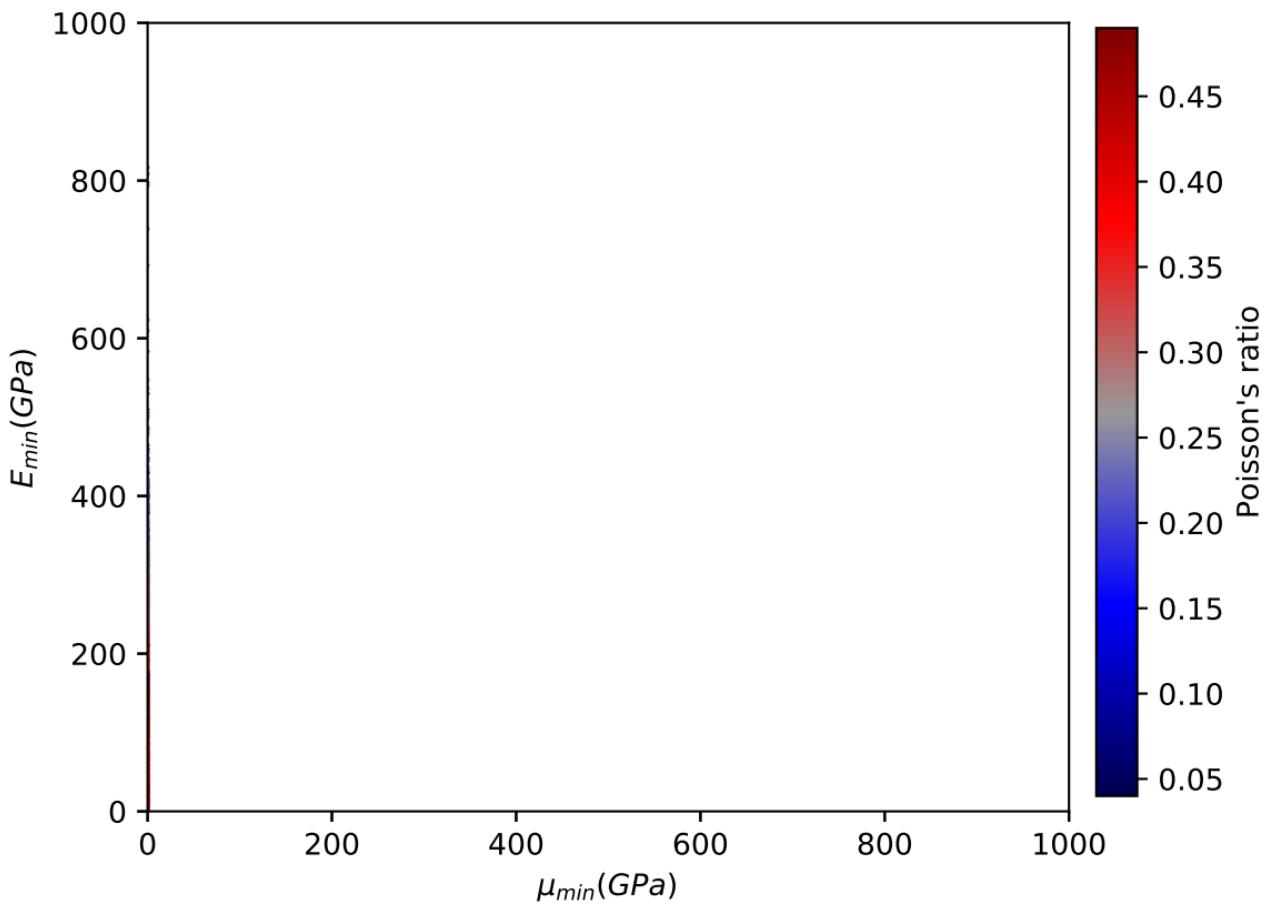


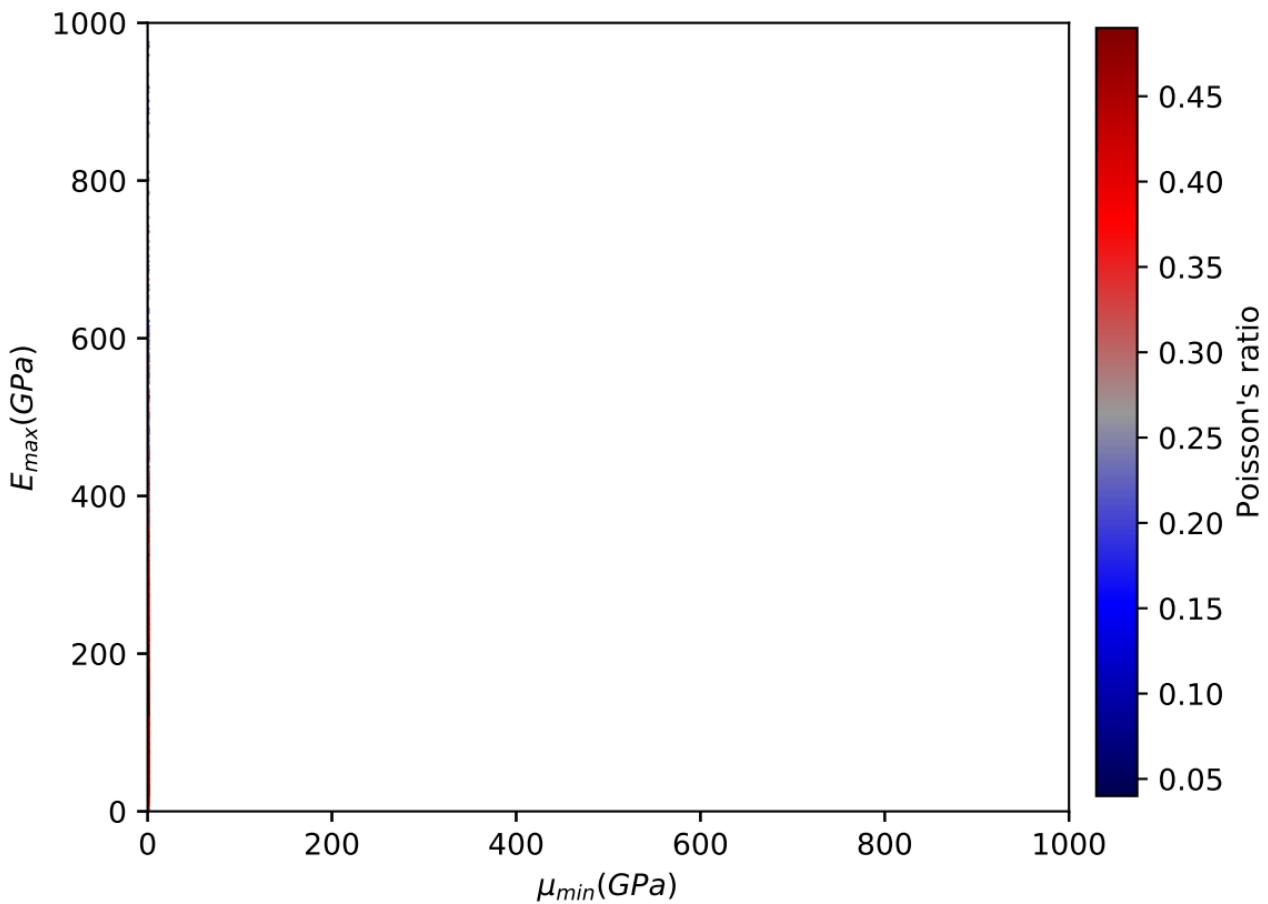


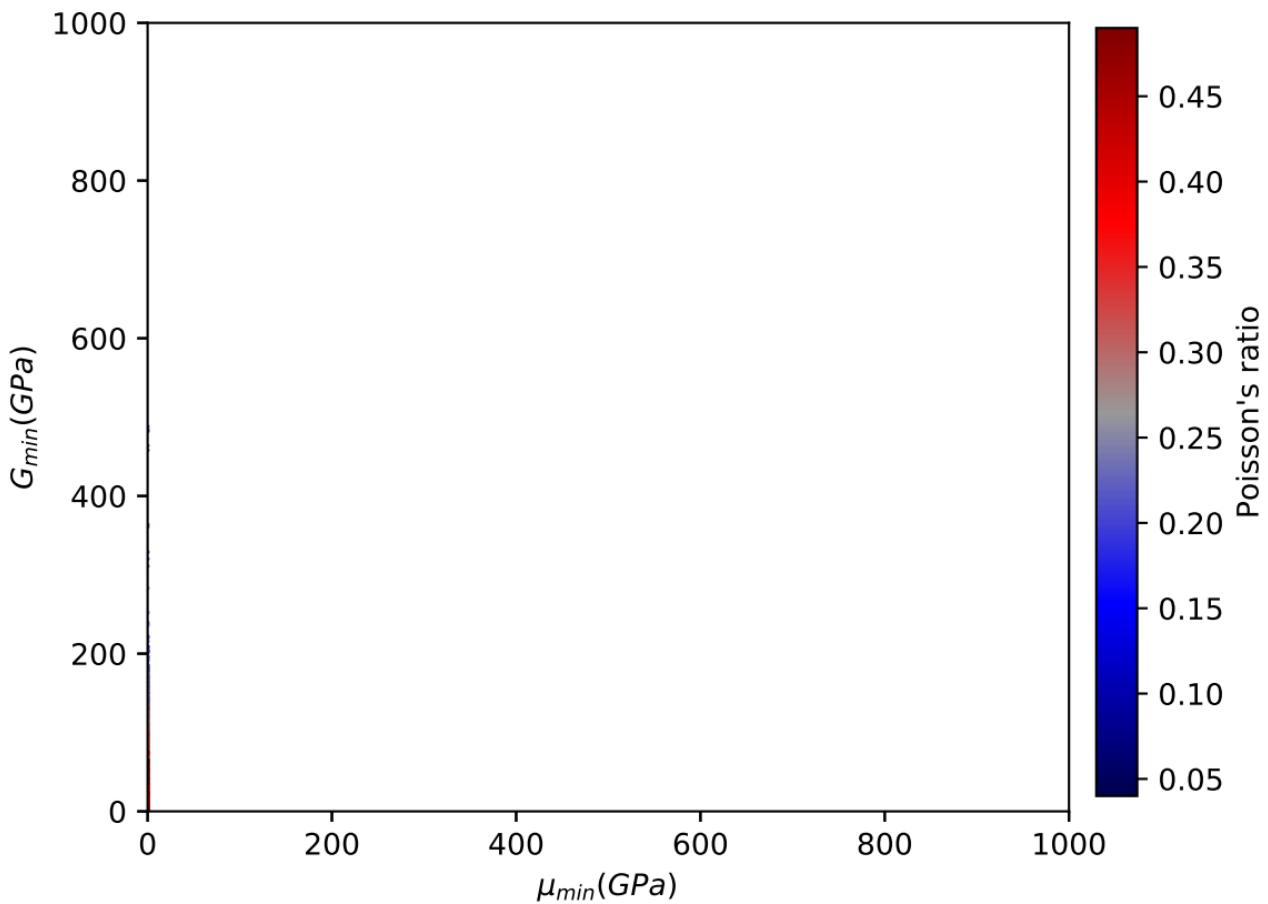


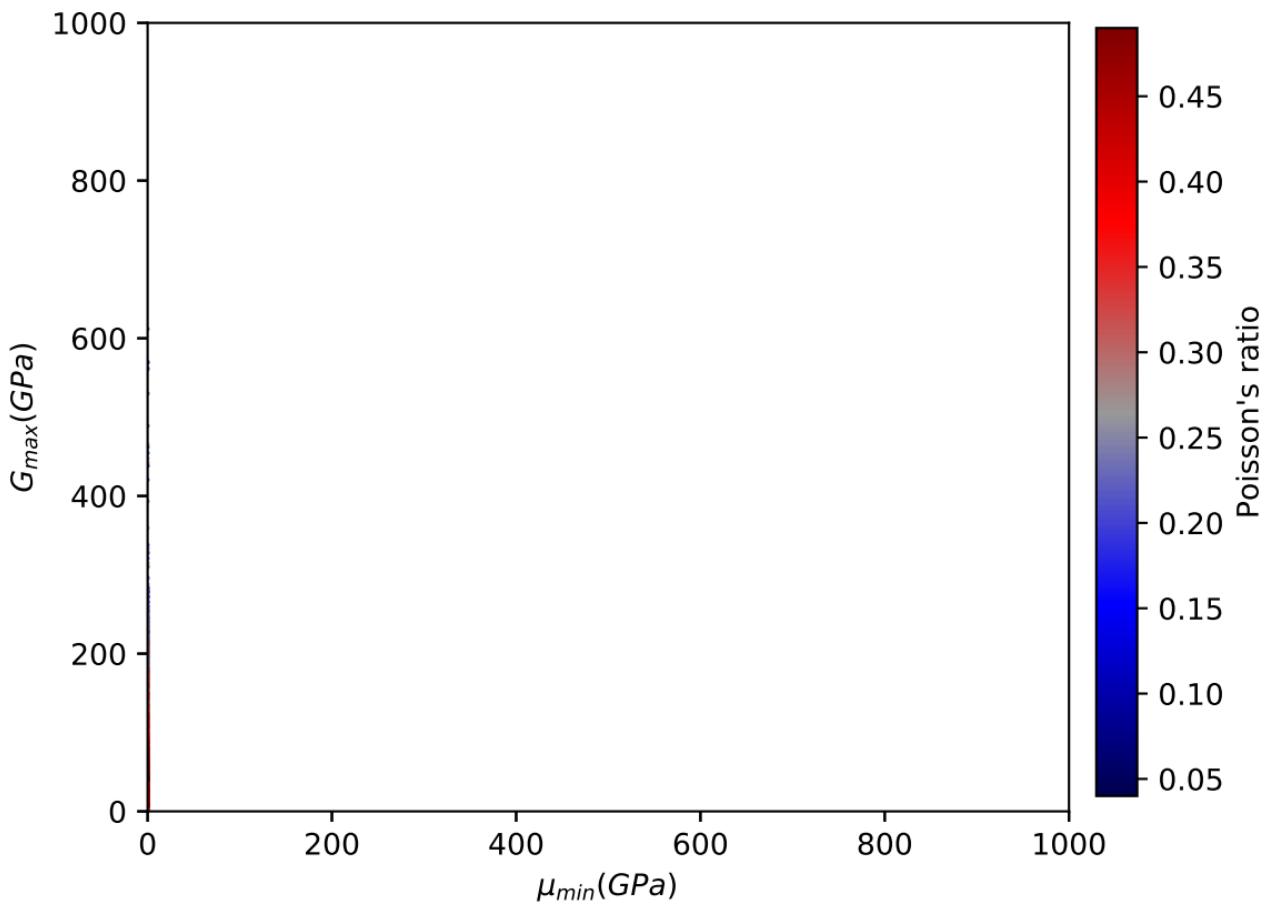


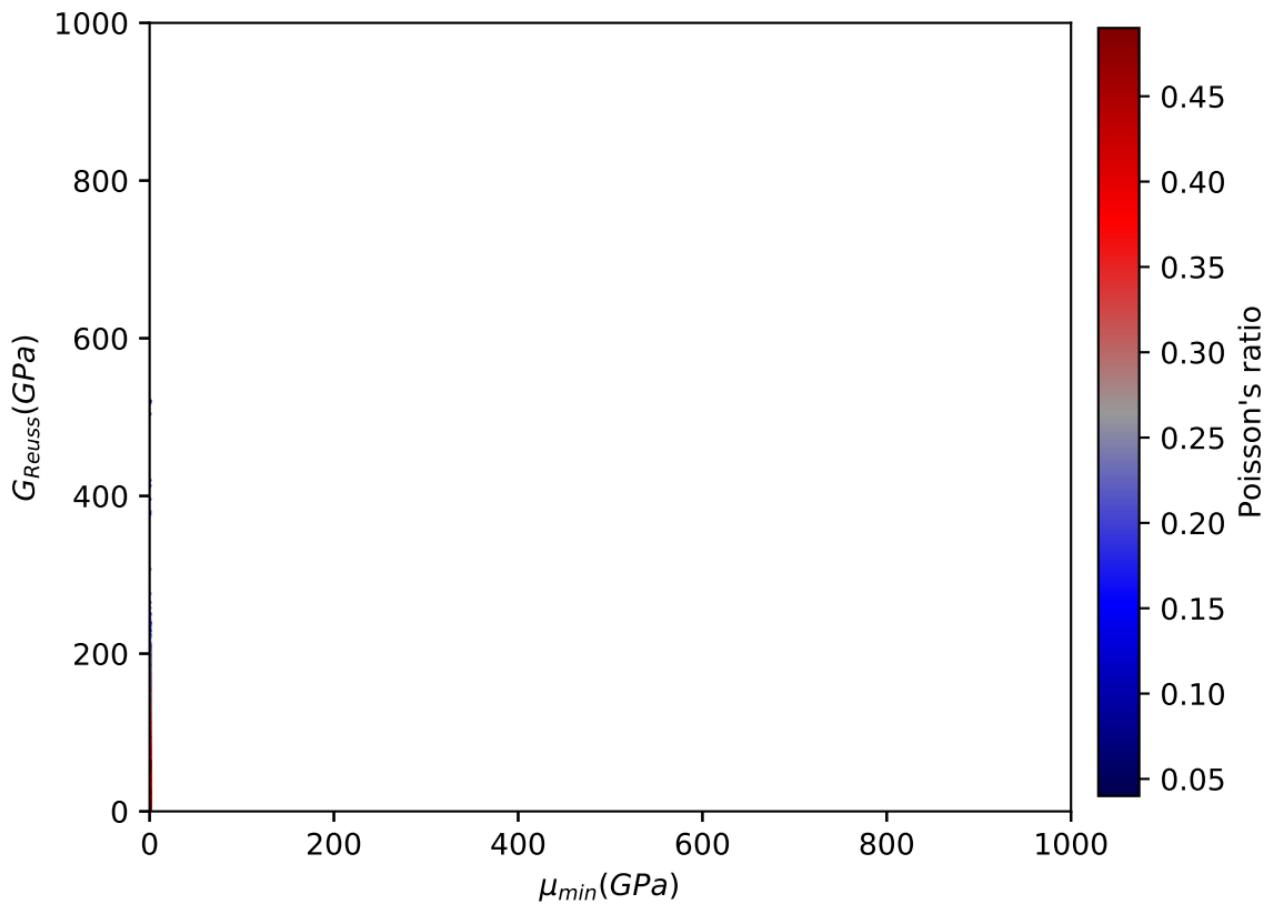












$G_{Vogt}(GPa)$

1000

800

600

400

200

0

200

400

600

800

1000

 $\mu_{min}(GPa)$

0.45

0.40

0.35

0.30

0.25

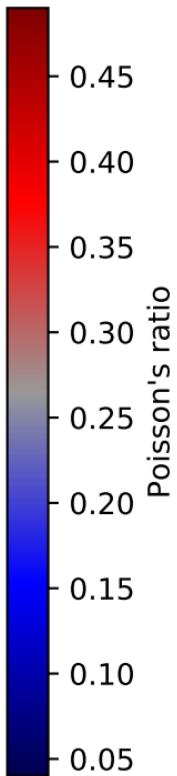
0.20

0.15

0.10

0.05

Poisson's ratio



$G_{Voigt\ Reuss\ Hill}(GPa)$

1000
800
600
400
200
0

0

200

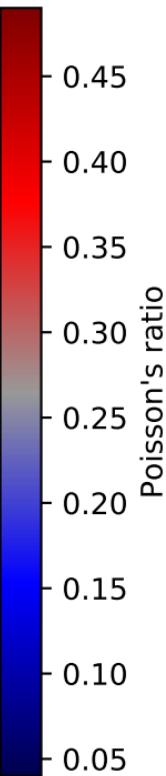
400

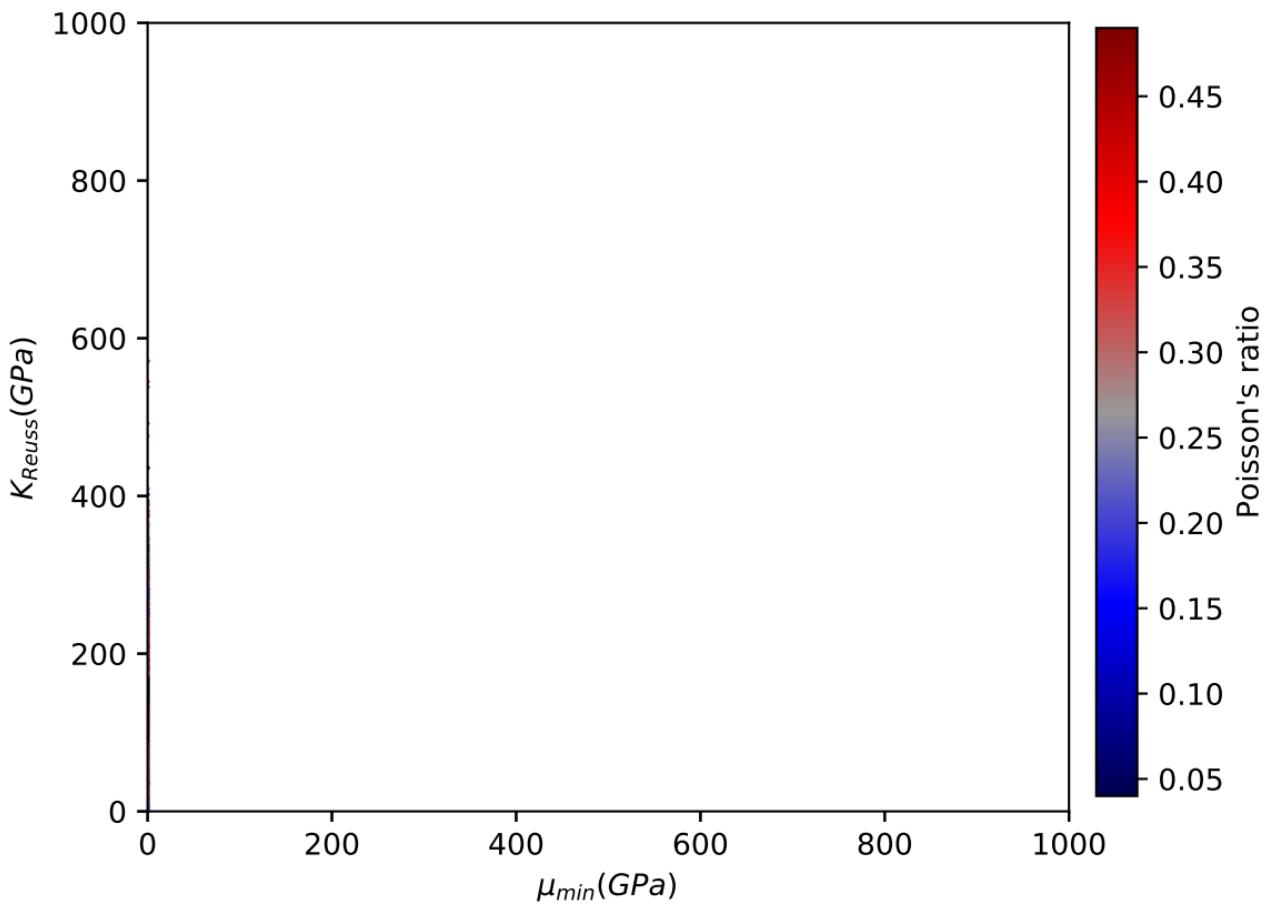
600

800

1000

$\mu_{min}(GPa)$





$K_{Voigt}(GPa)$

1000

800

600

400

200

0

200

400

600

800

1000

 $\mu_{min}(GPa)$

0.45

0.40

0.35

0.30

0.25

0.20

0.15

0.10

0.05

Poisson's ratio



$K_{Voigt\ Reuss\ Hill}(GPa)$

1000
800
600
400
200
0

0

200

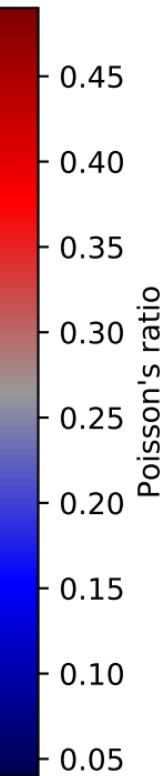
400

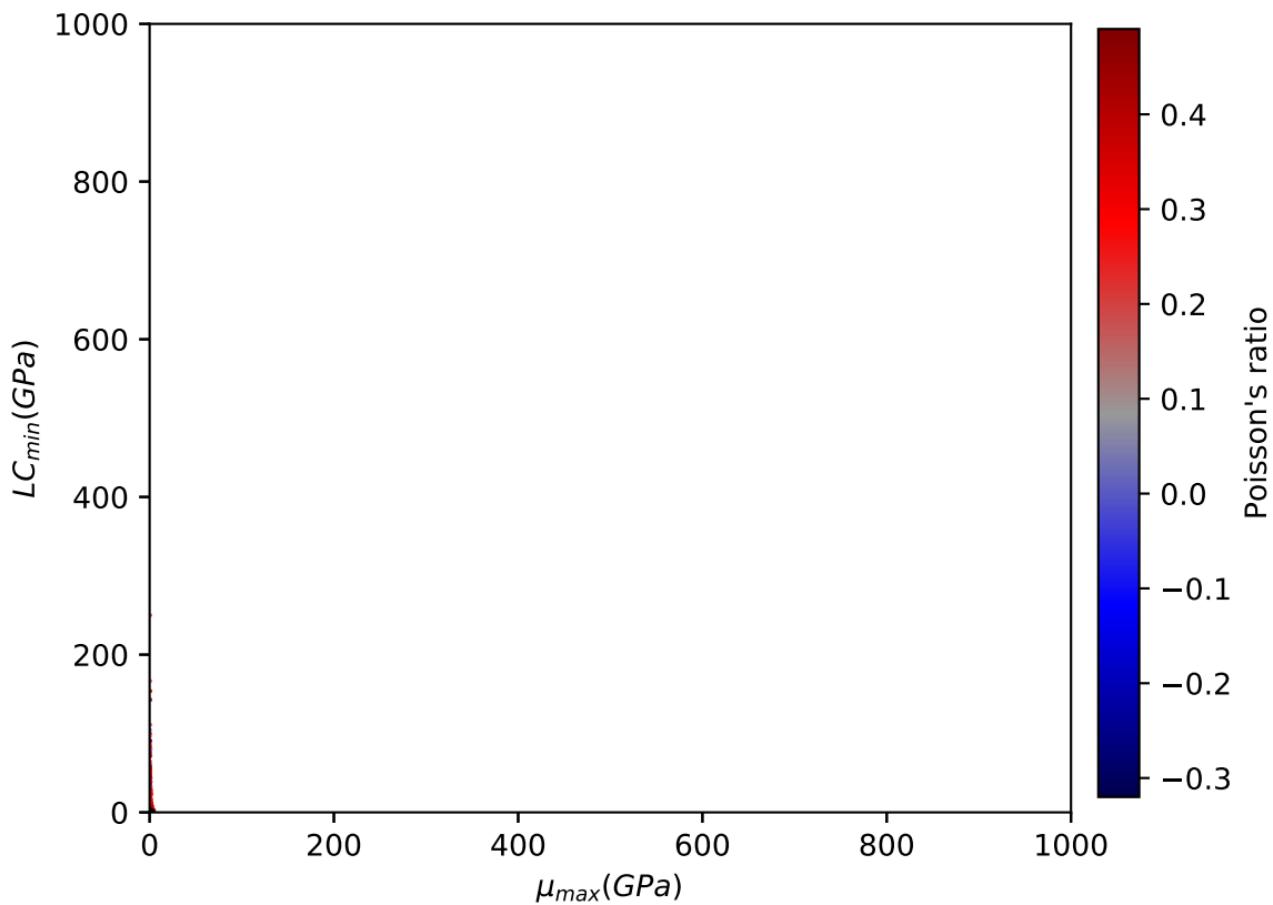
600

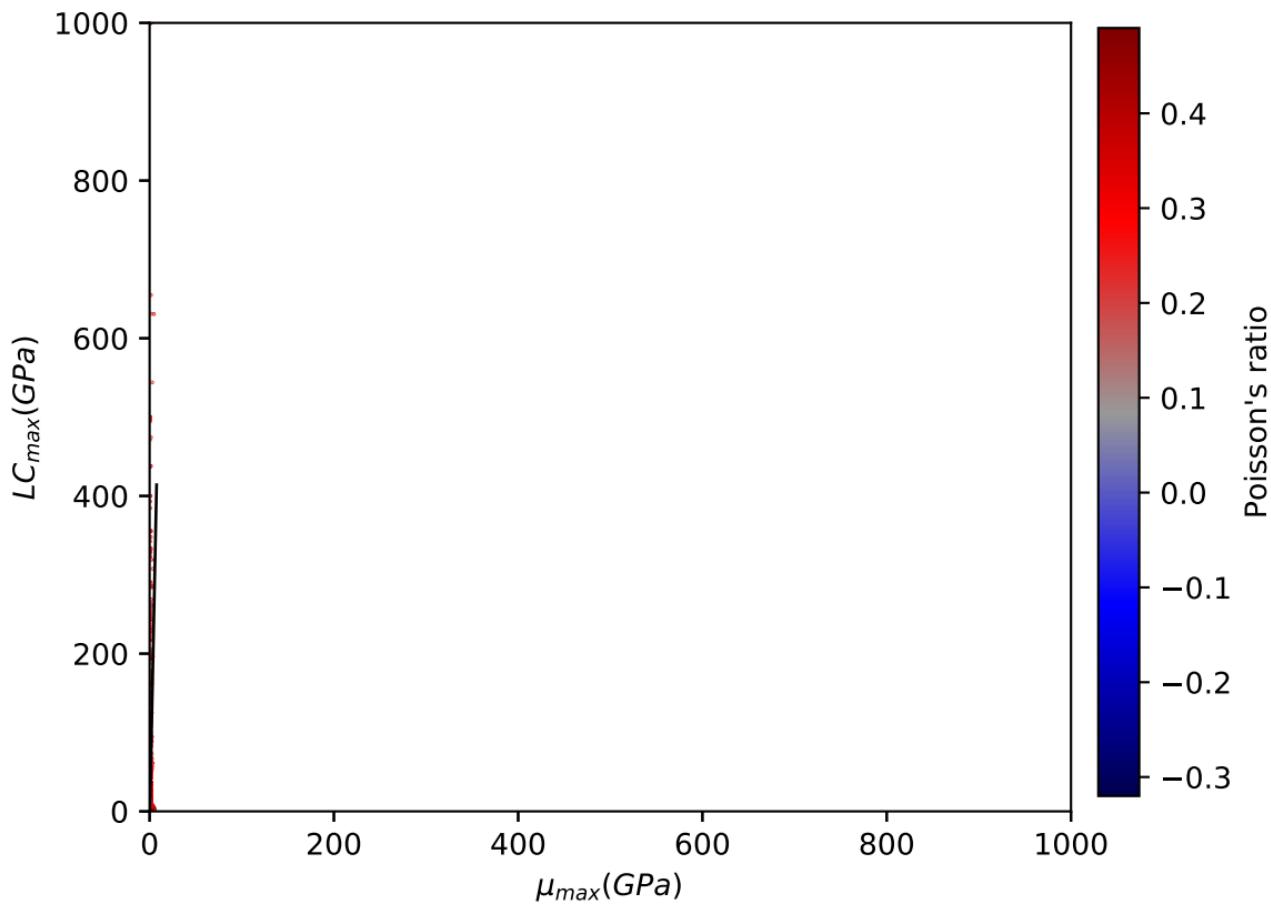
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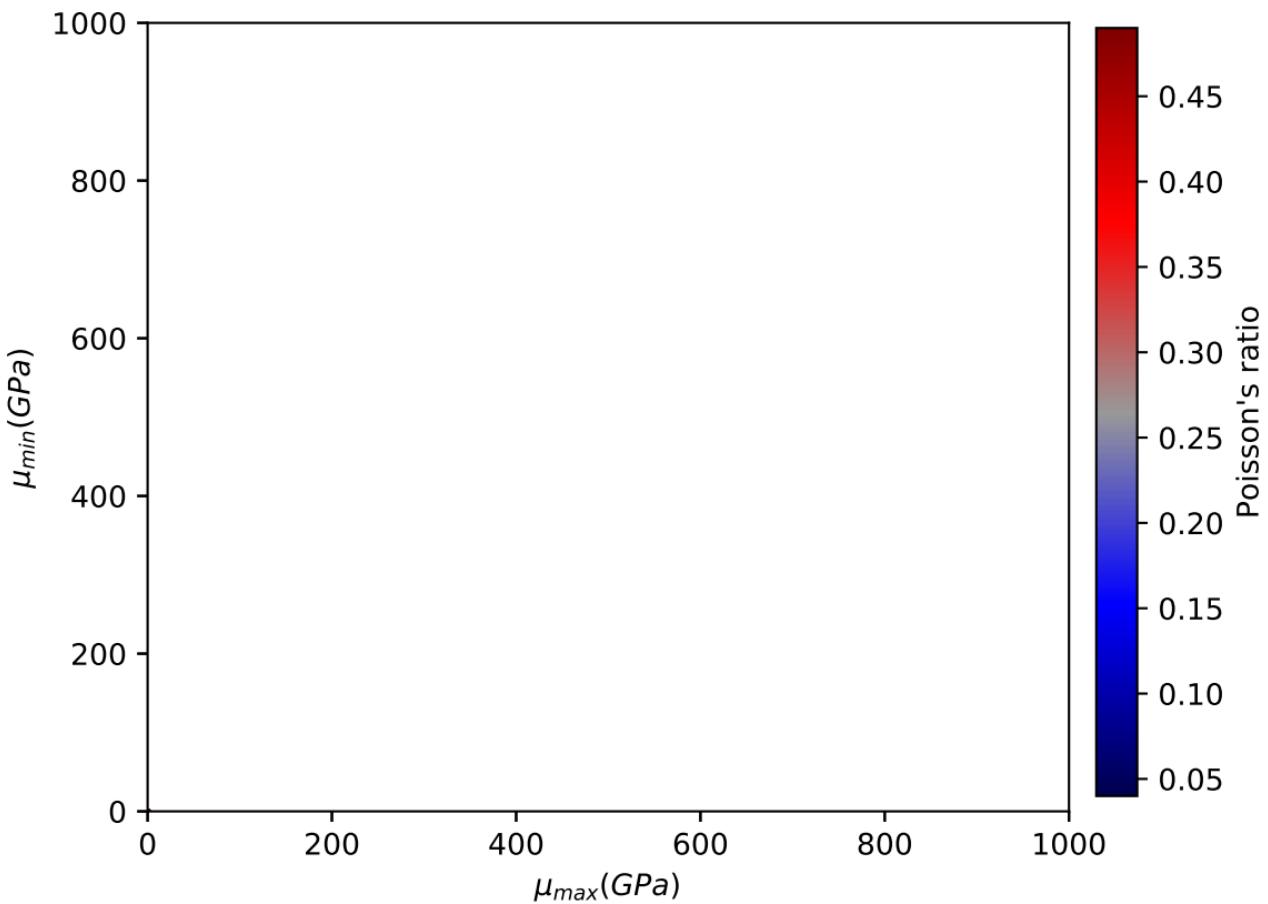
1000

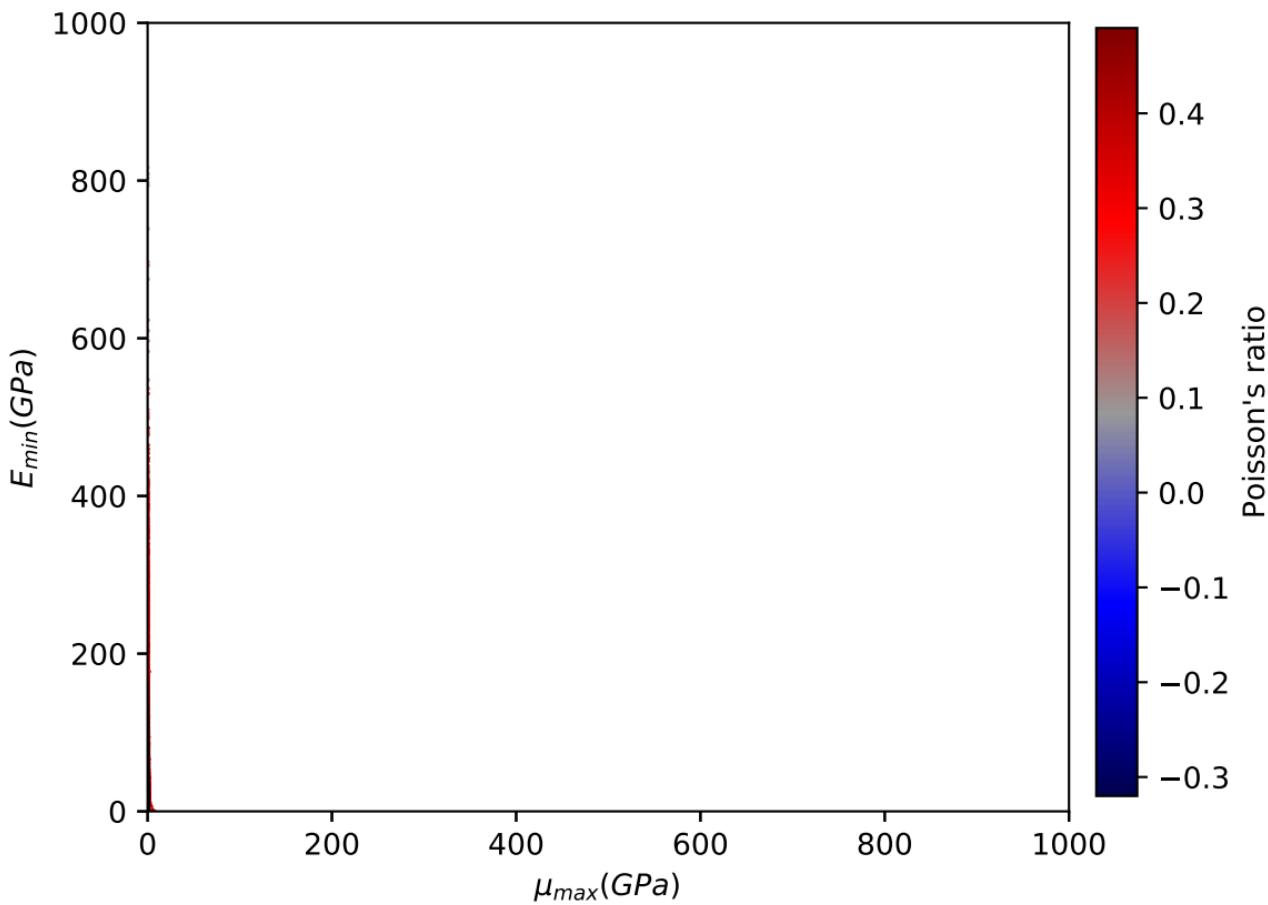
$\mu_{min}(GPa)$

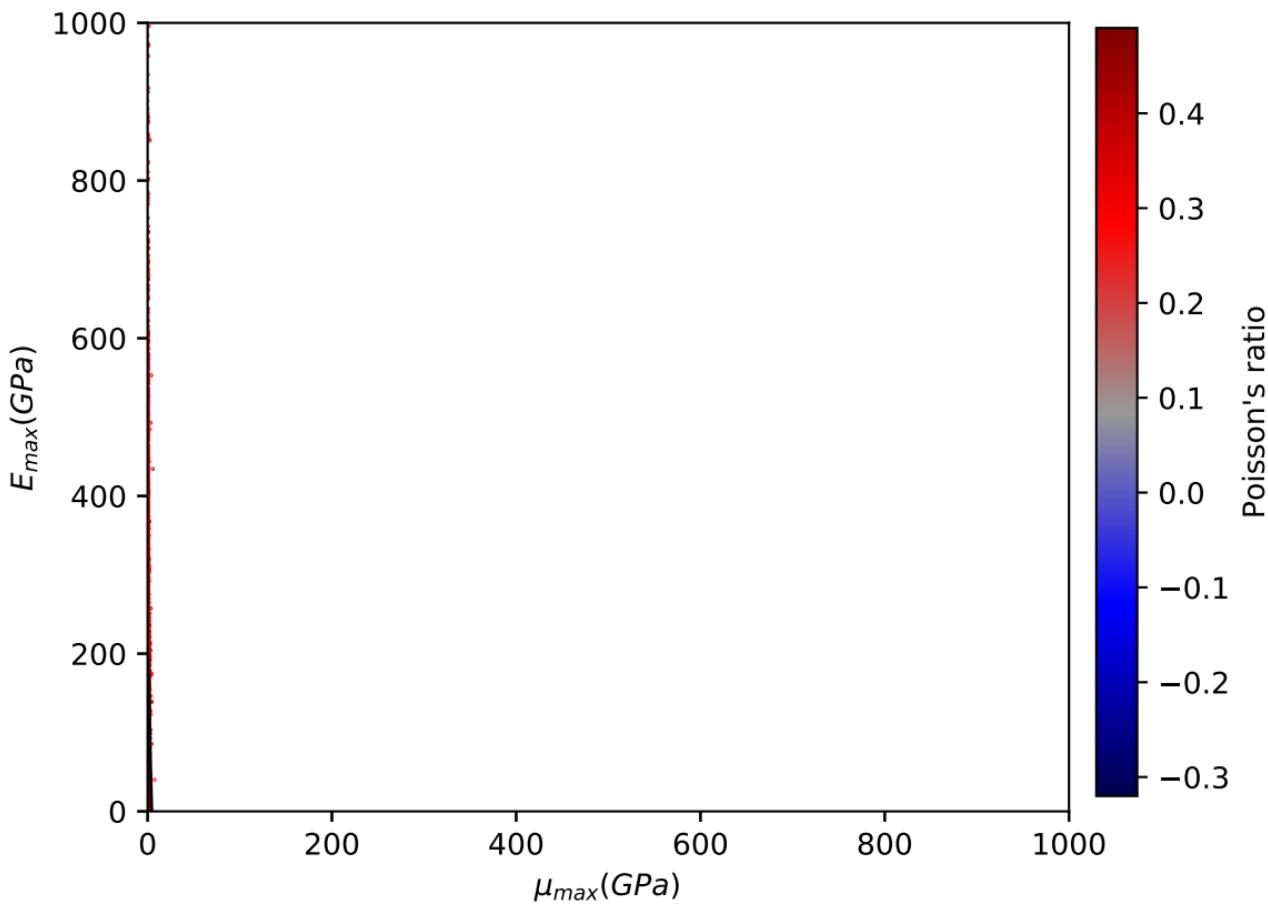


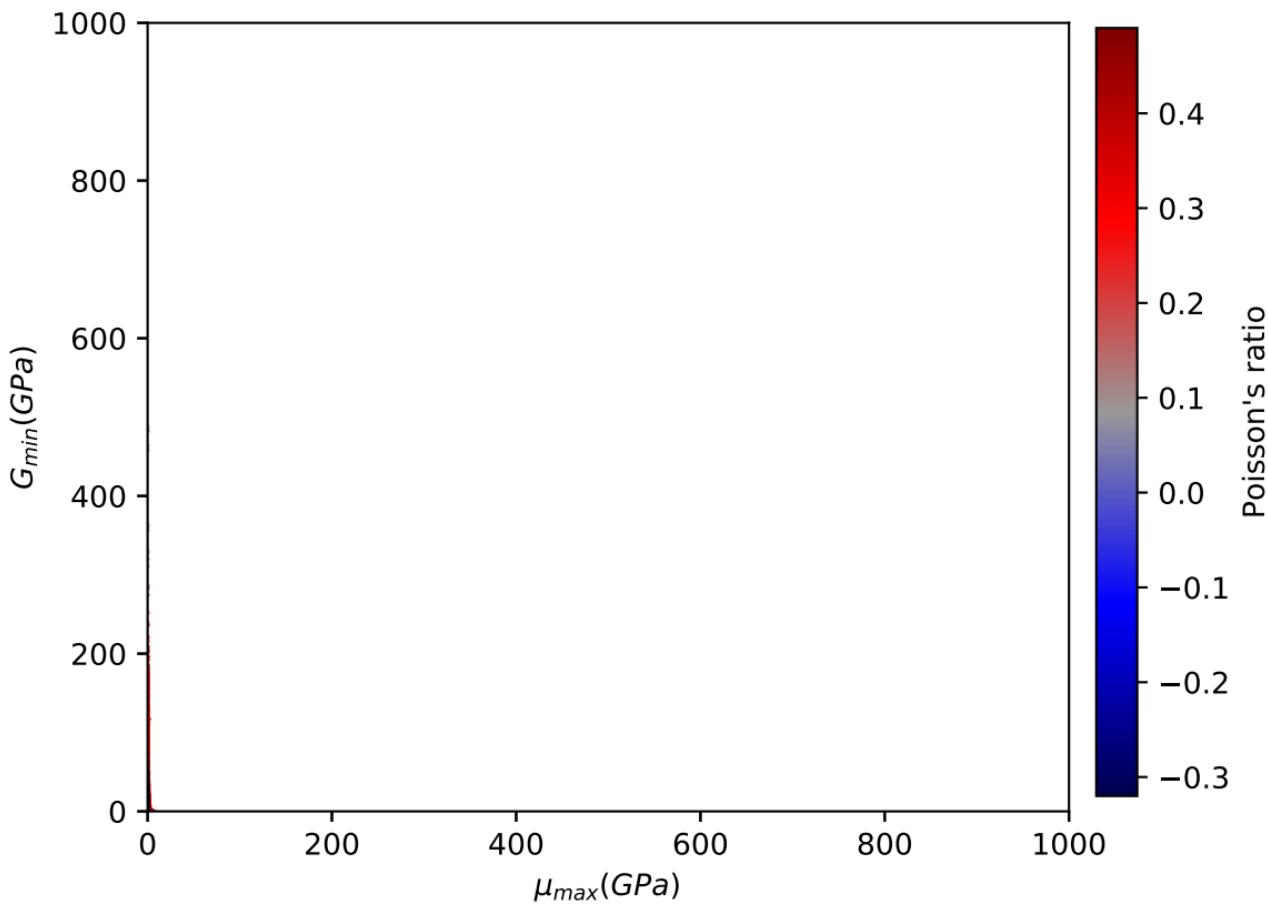


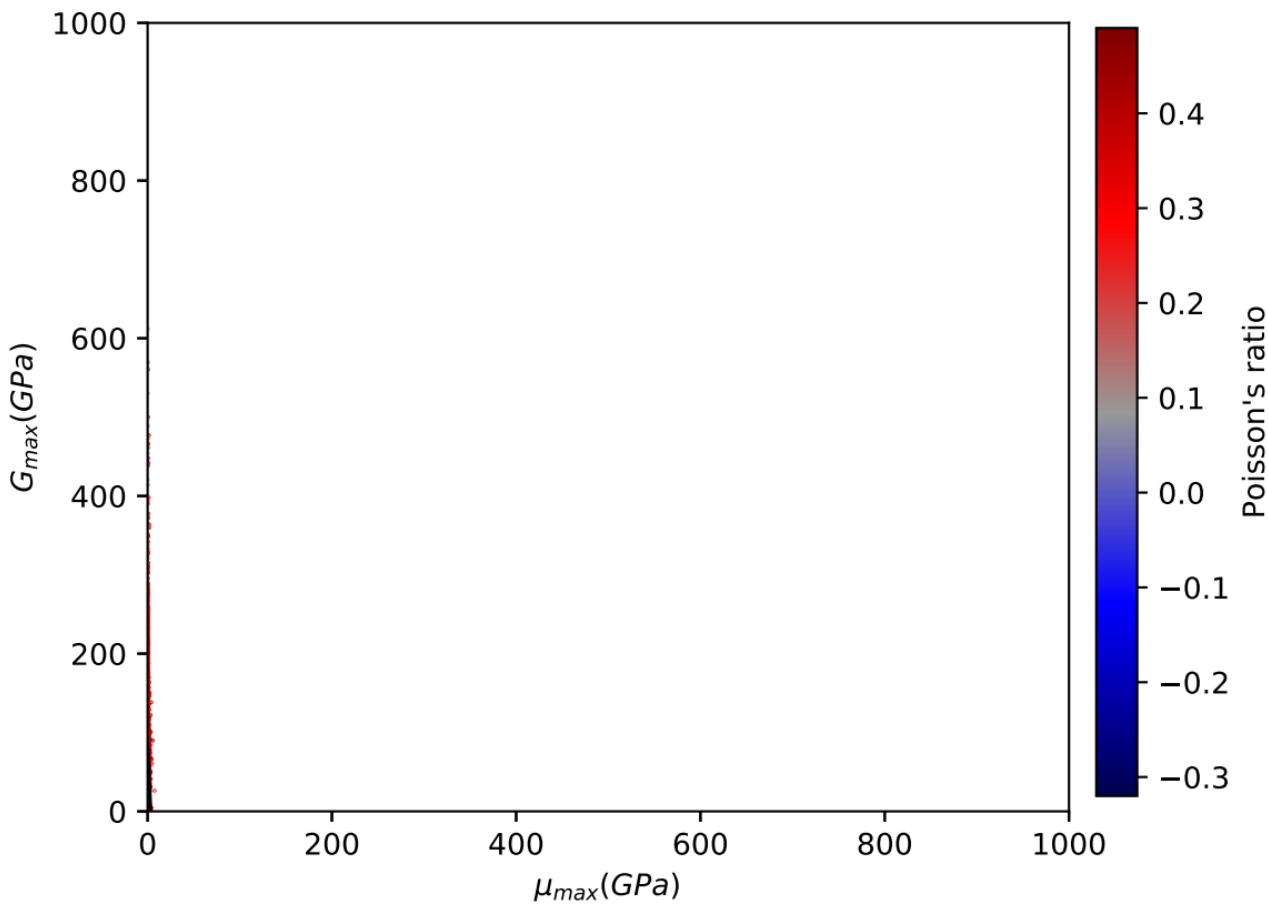


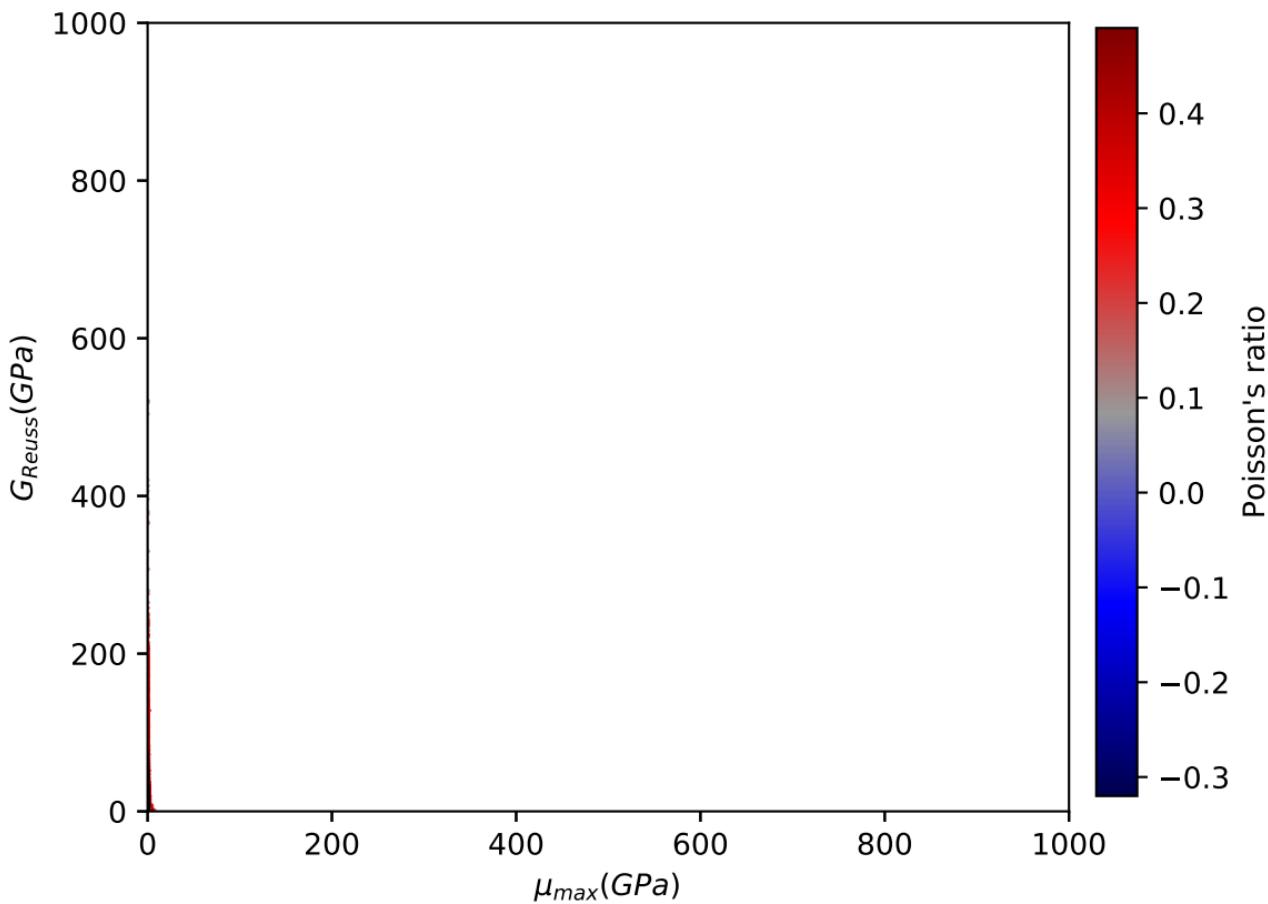












$G_{Vogt}(GPa)$

1000

800

600

400

200

0

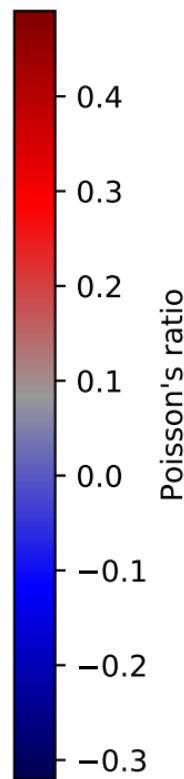
200

400

600

800

1000

 $\mu_{max}(GPa)$ 

Poisson's ratio

$G_{Voigt\ Reuss\ Hill}(GPa)$

1000
800
600
400
200
0

0

200

400

600

800

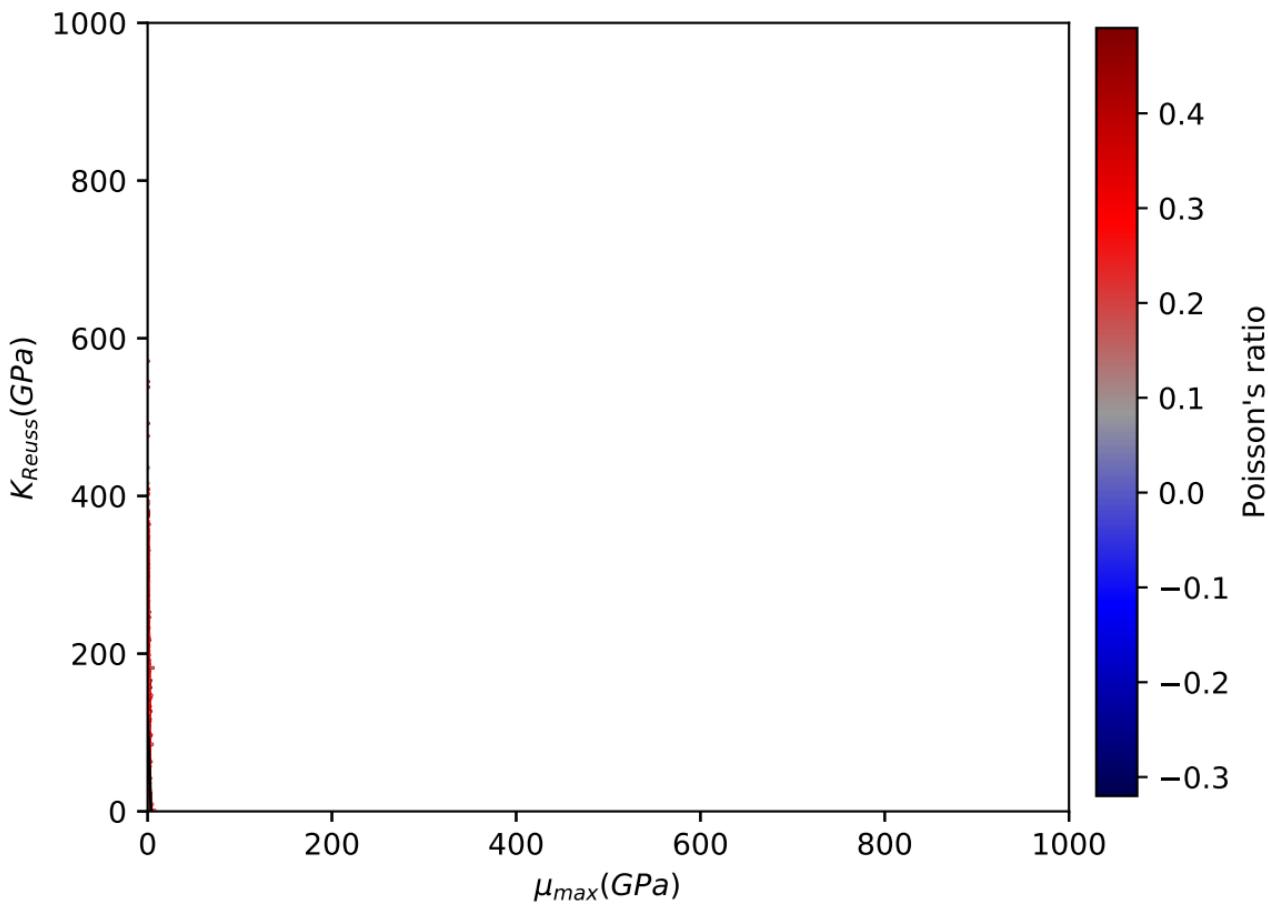
1000

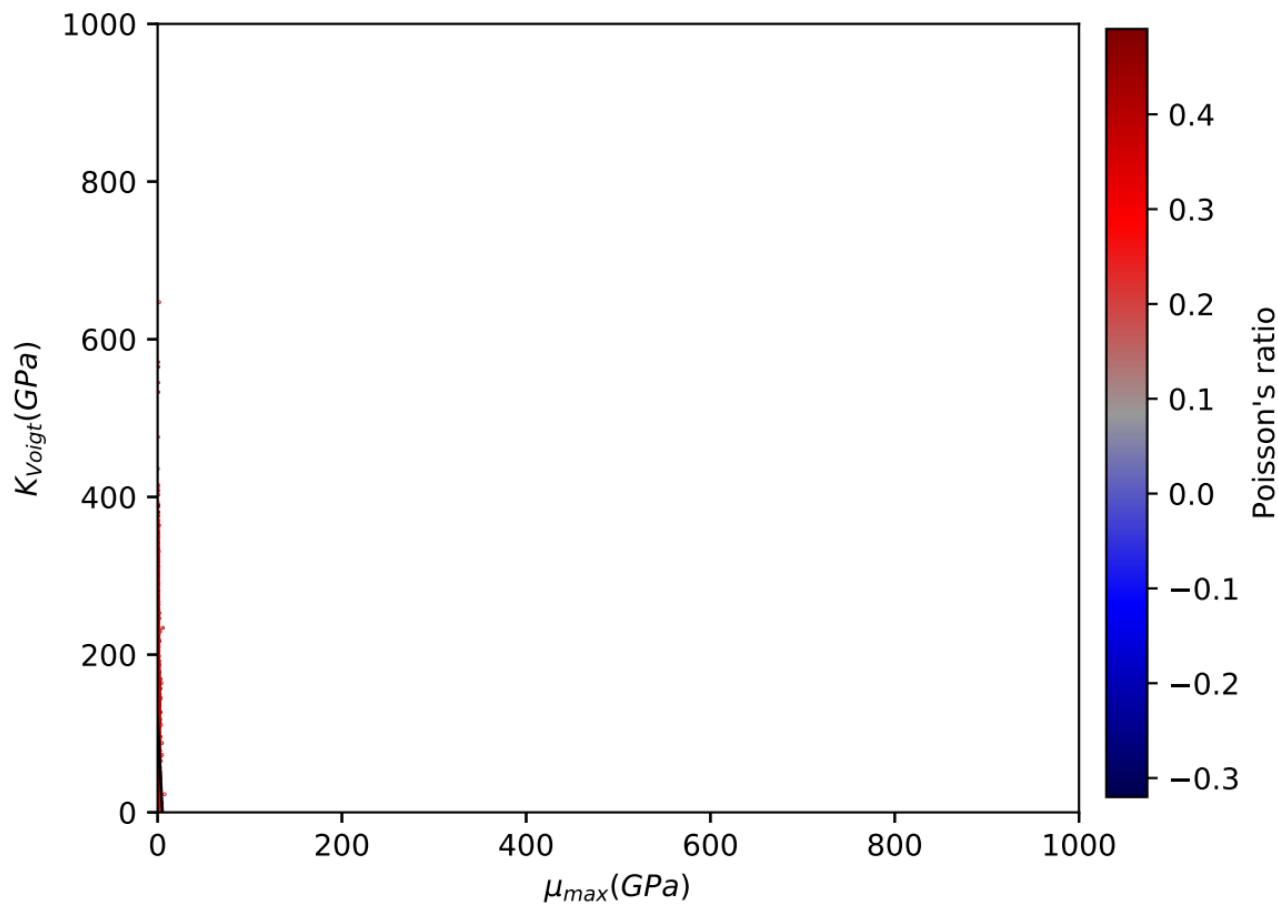
$\mu_{max}(GPa)$



0.4
0.3
0.2
0.1
0.0
-0.1
-0.2
-0.3

Poisson's ratio





$K_{voigt \text{ Reuss } Hill}(GPa)$

1000
800
600
400
200
0

0

200

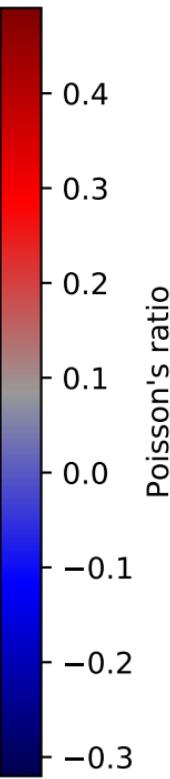
400

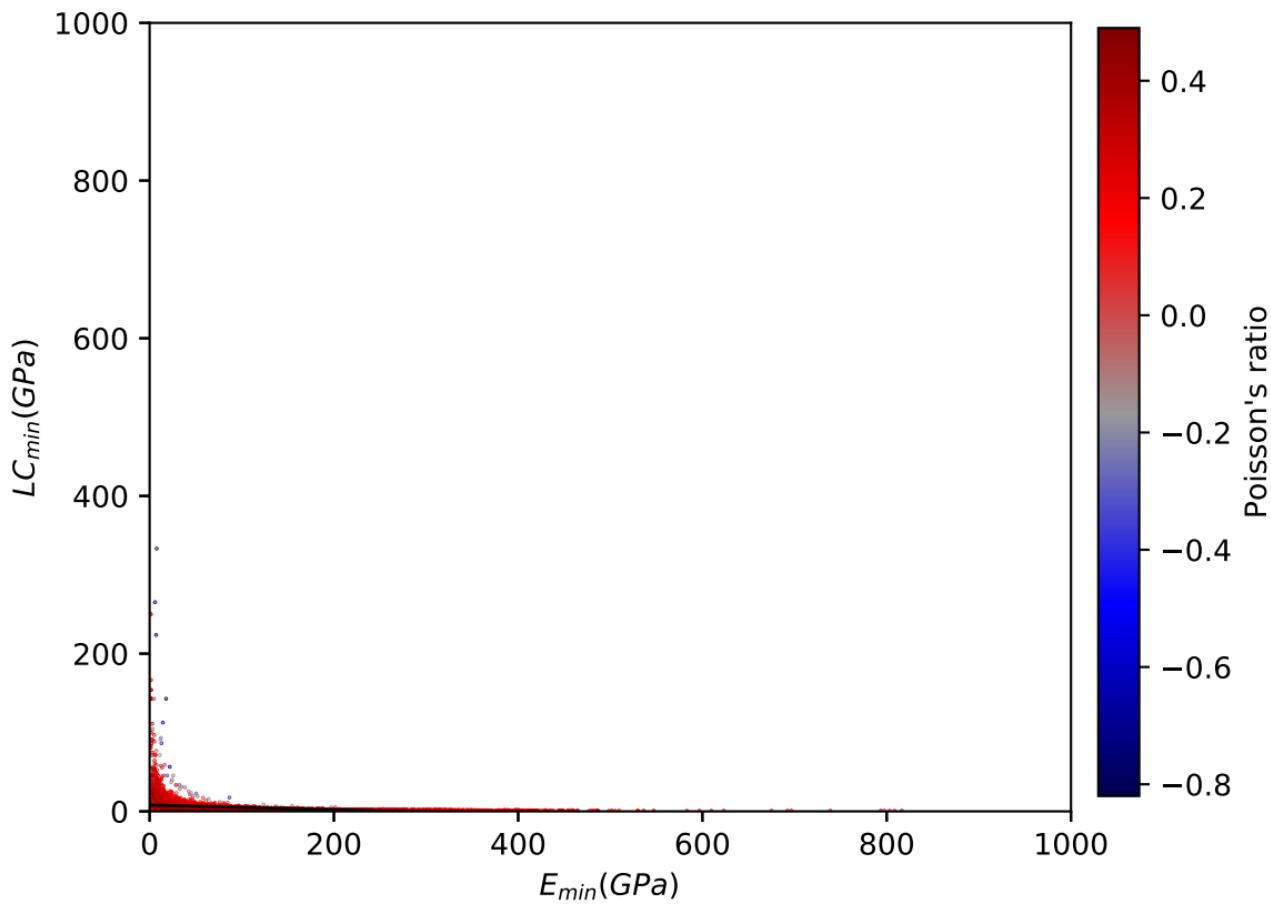
600

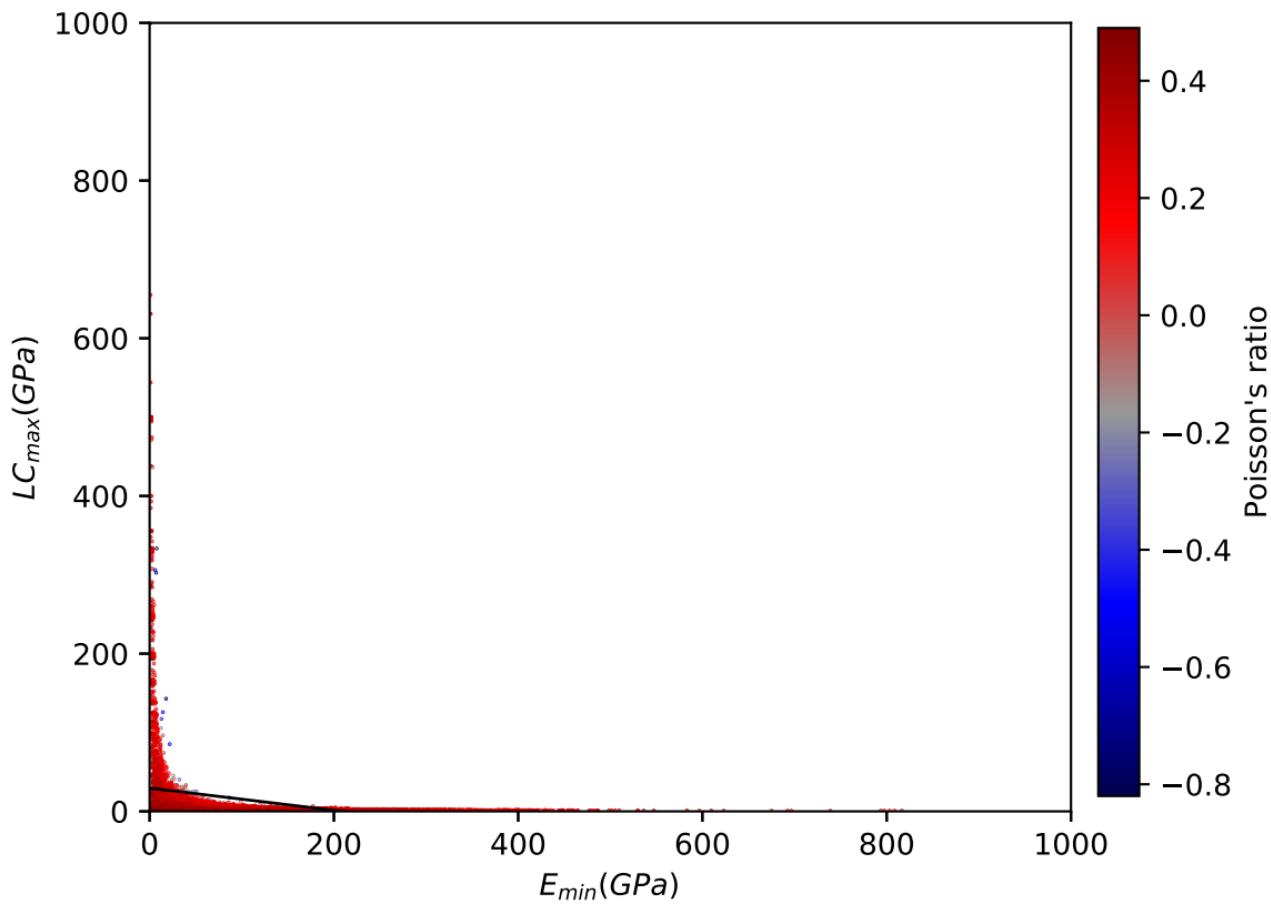
800

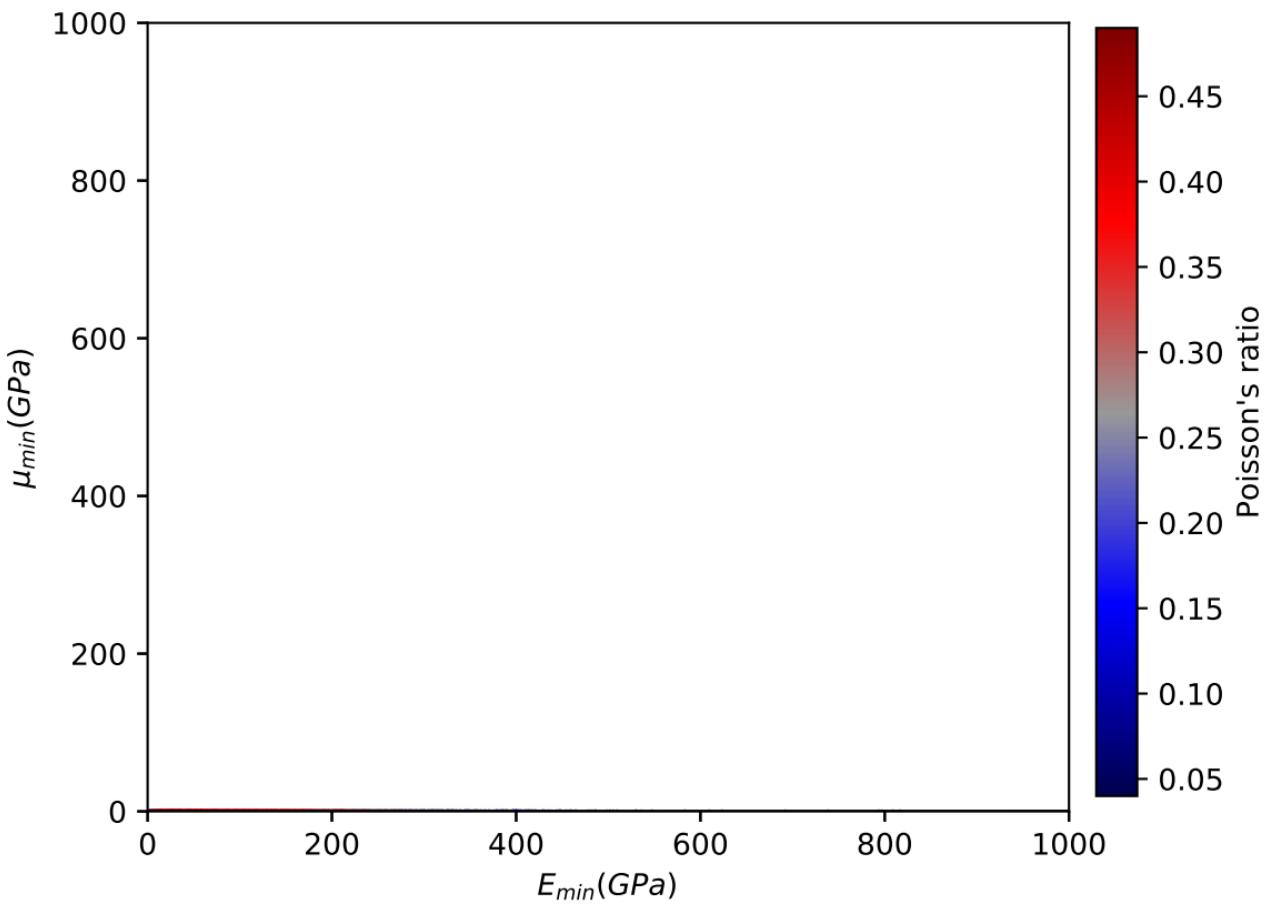
1000

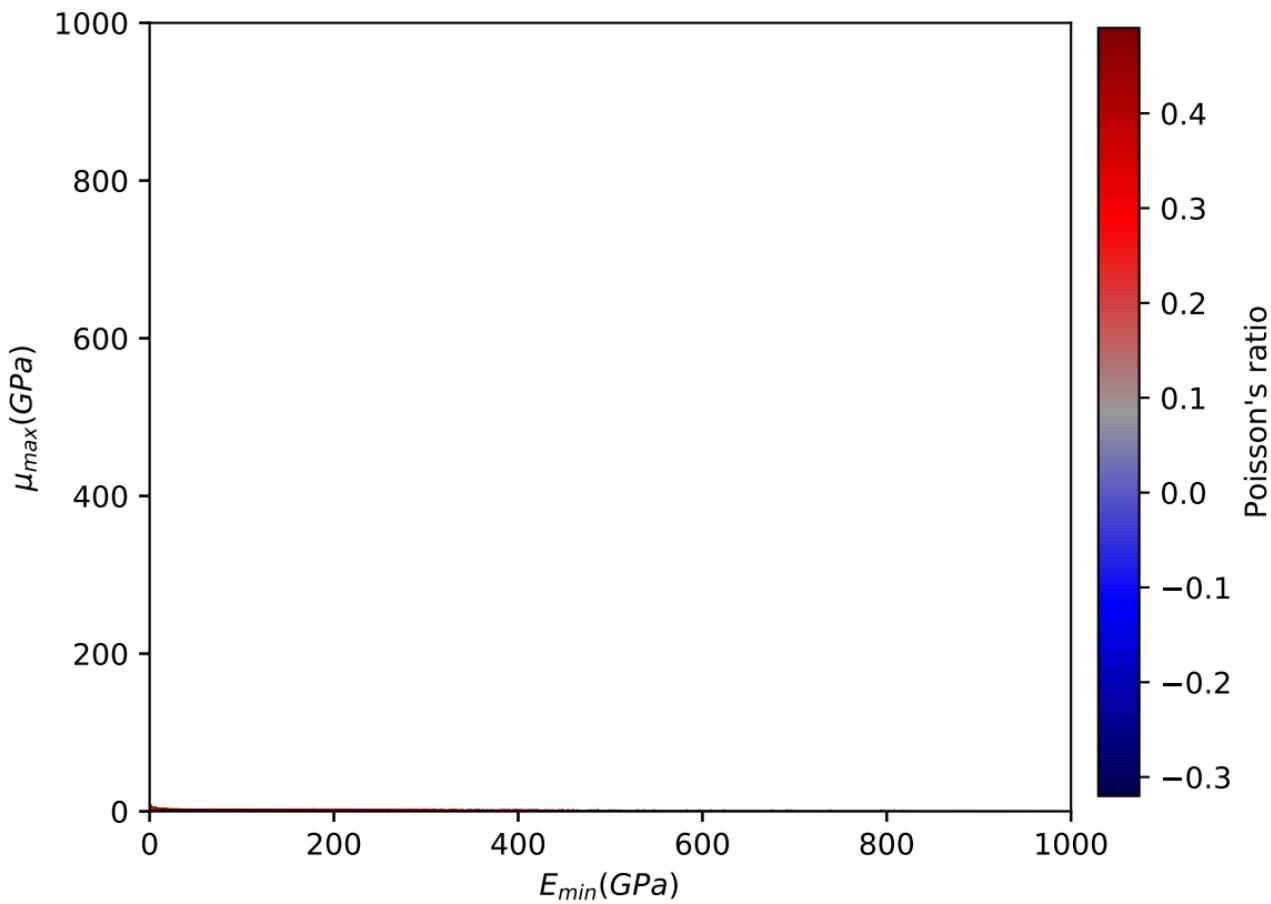
$\mu_{max}(GPa)$

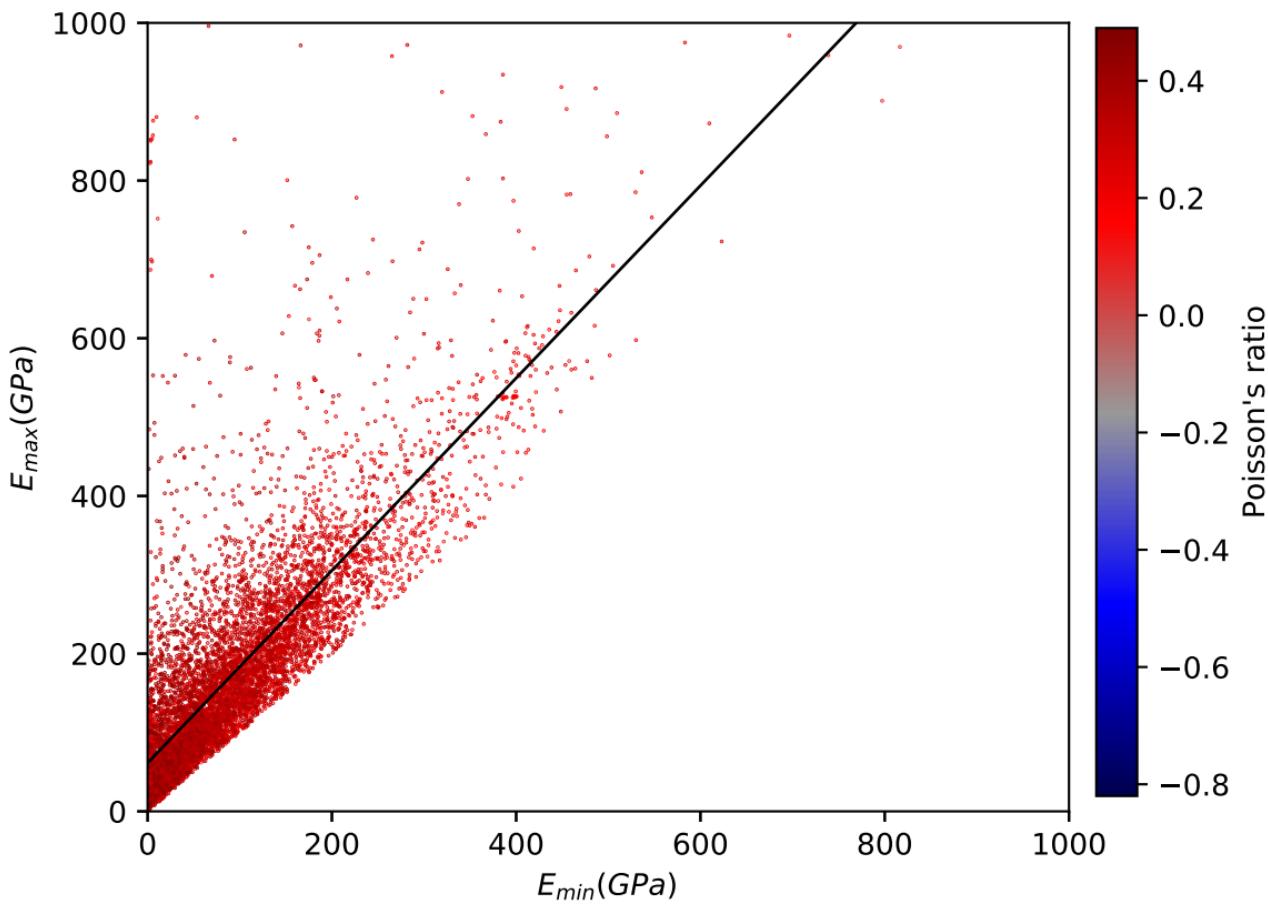


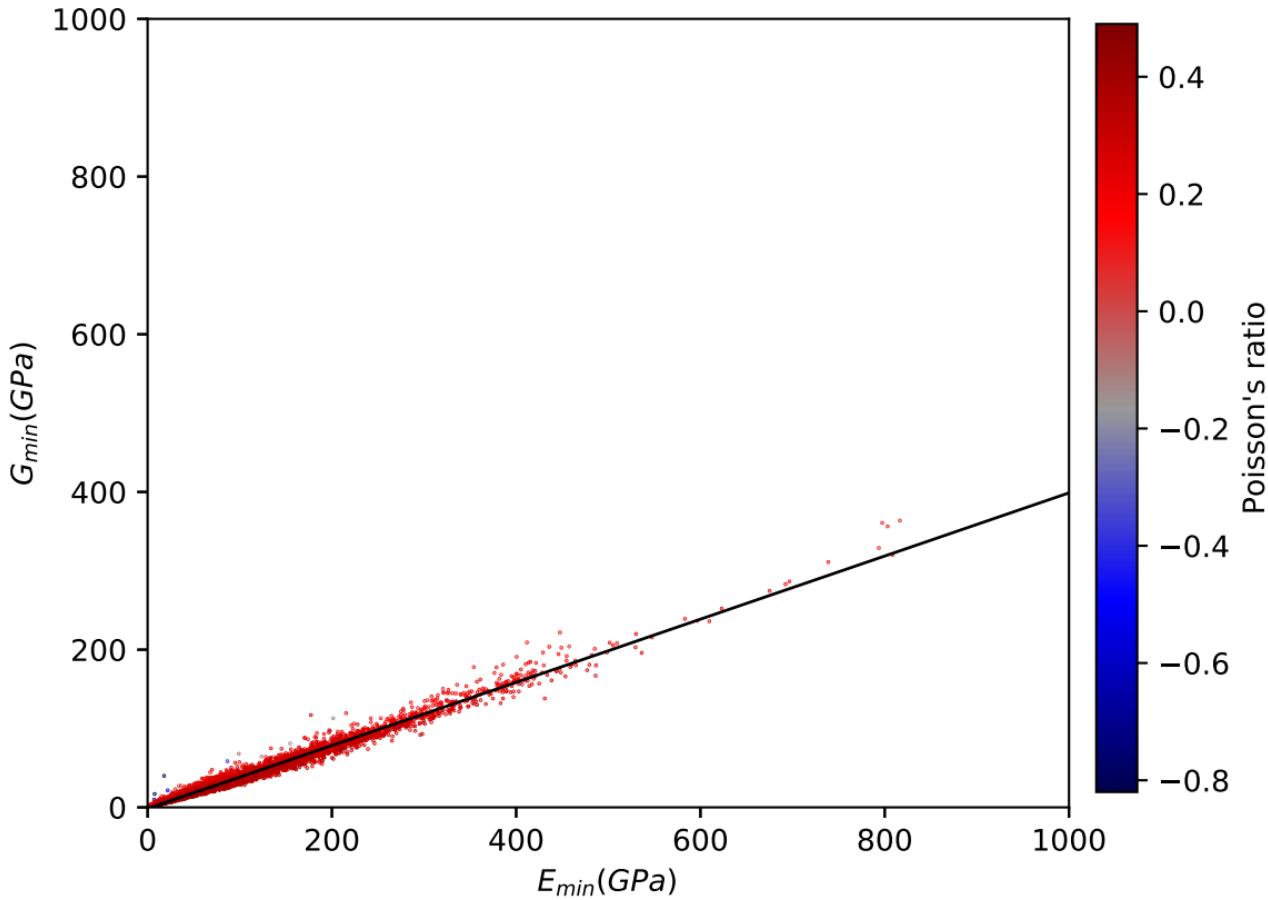


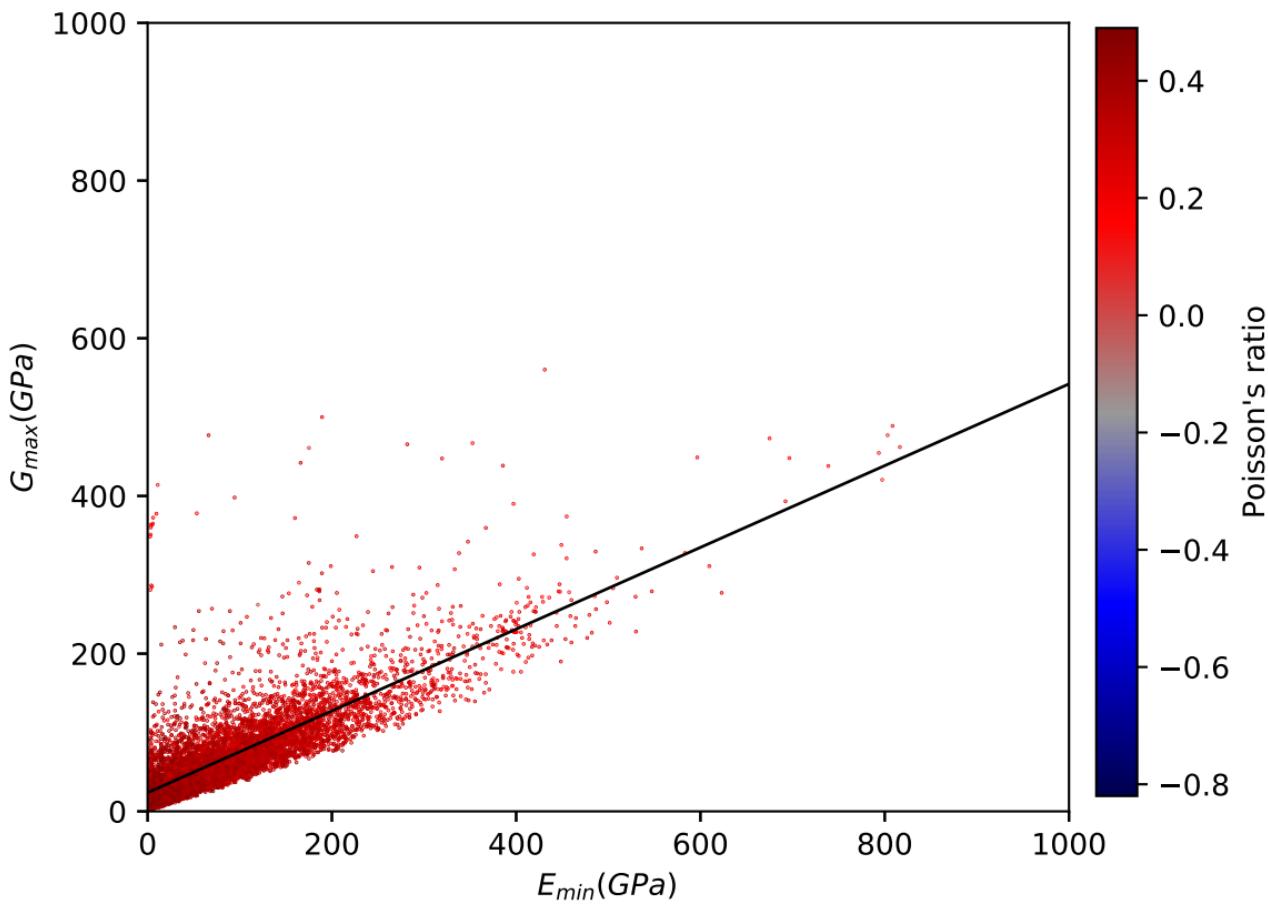


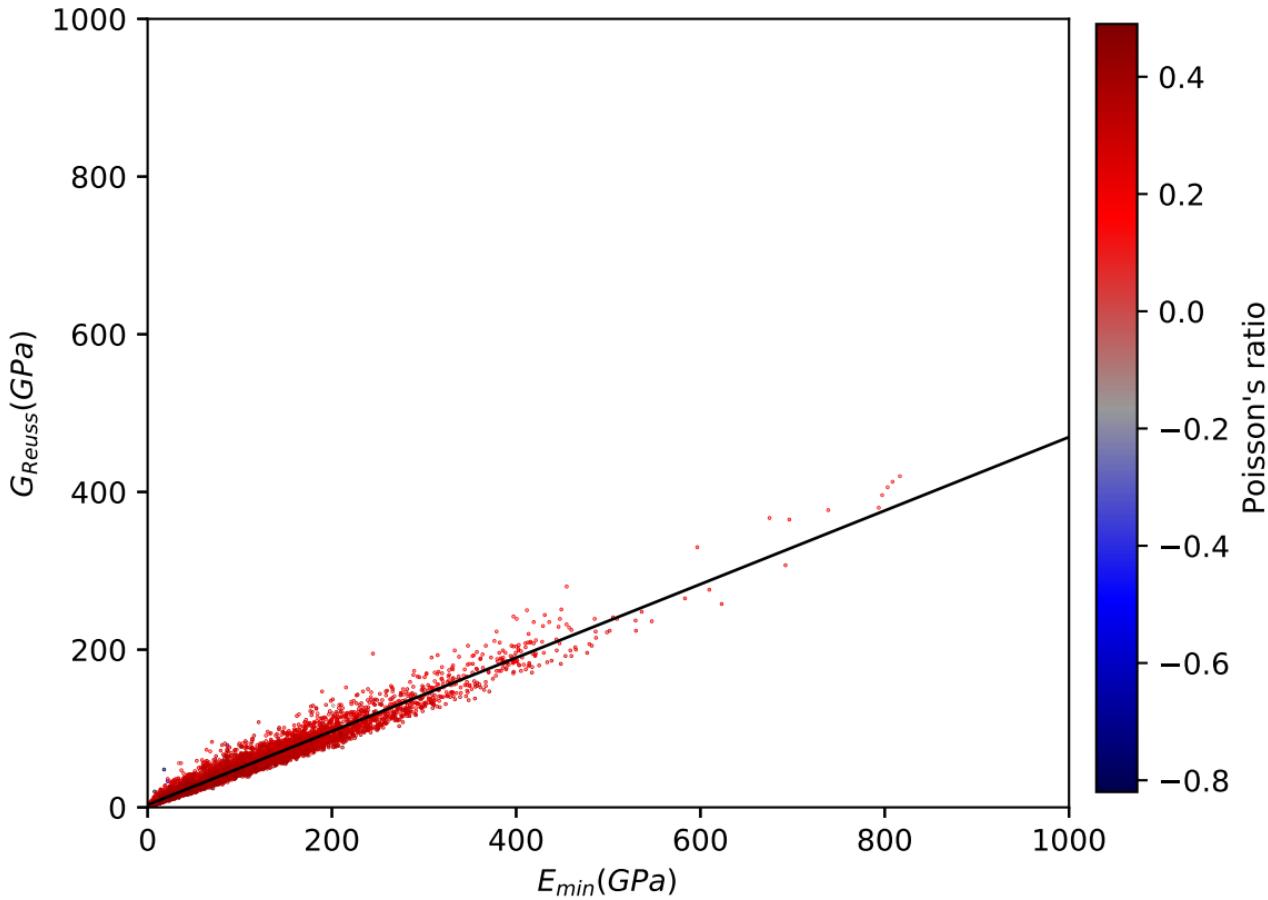


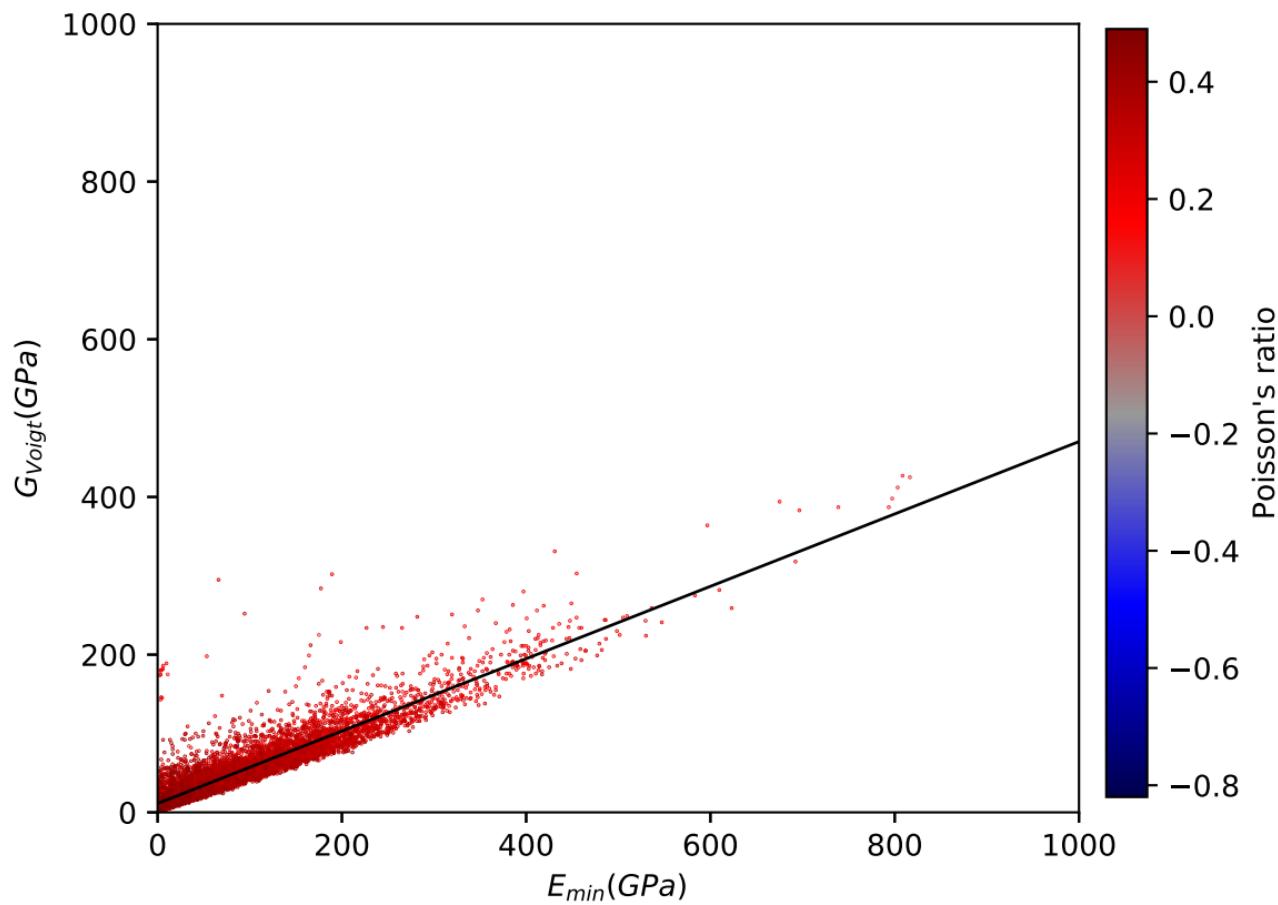


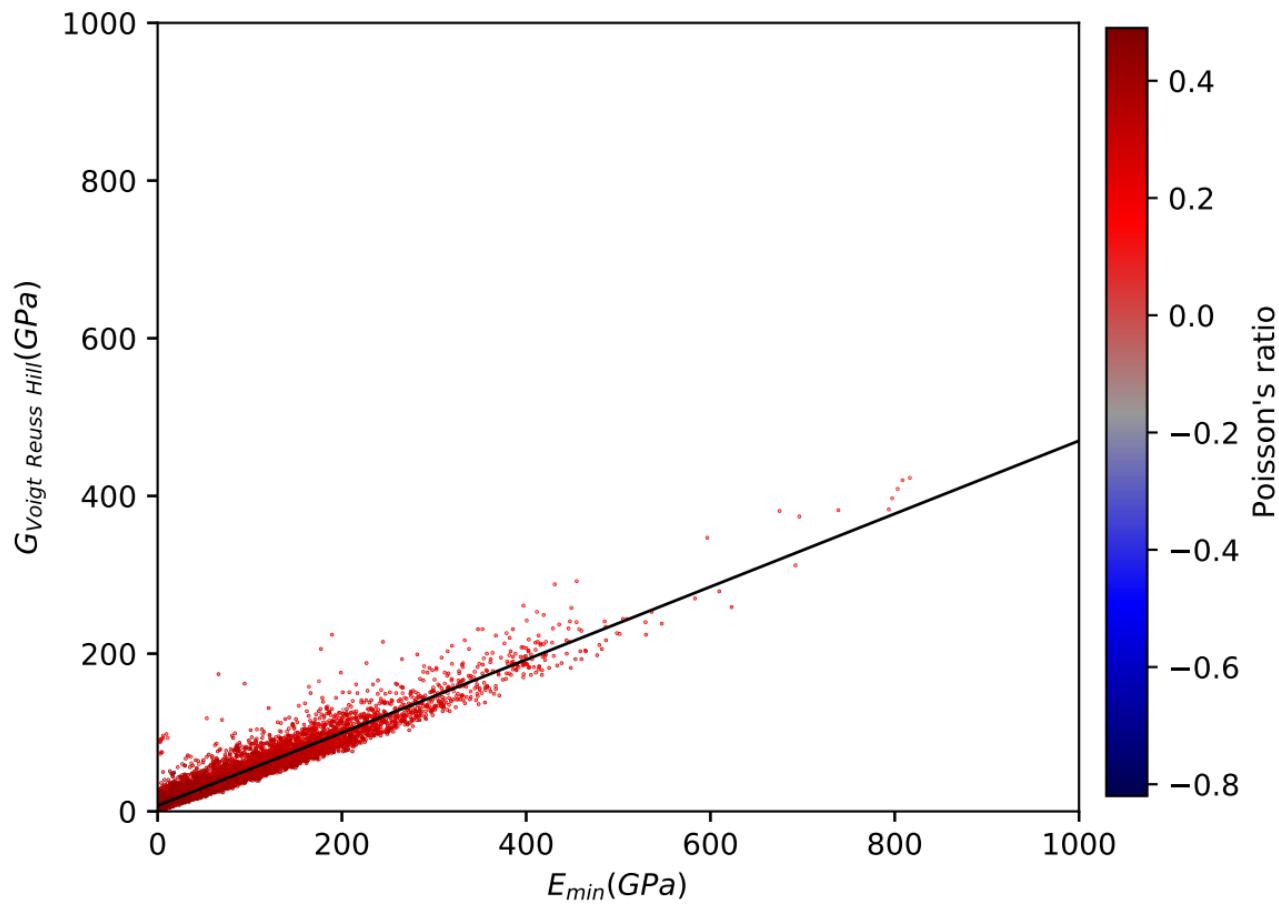


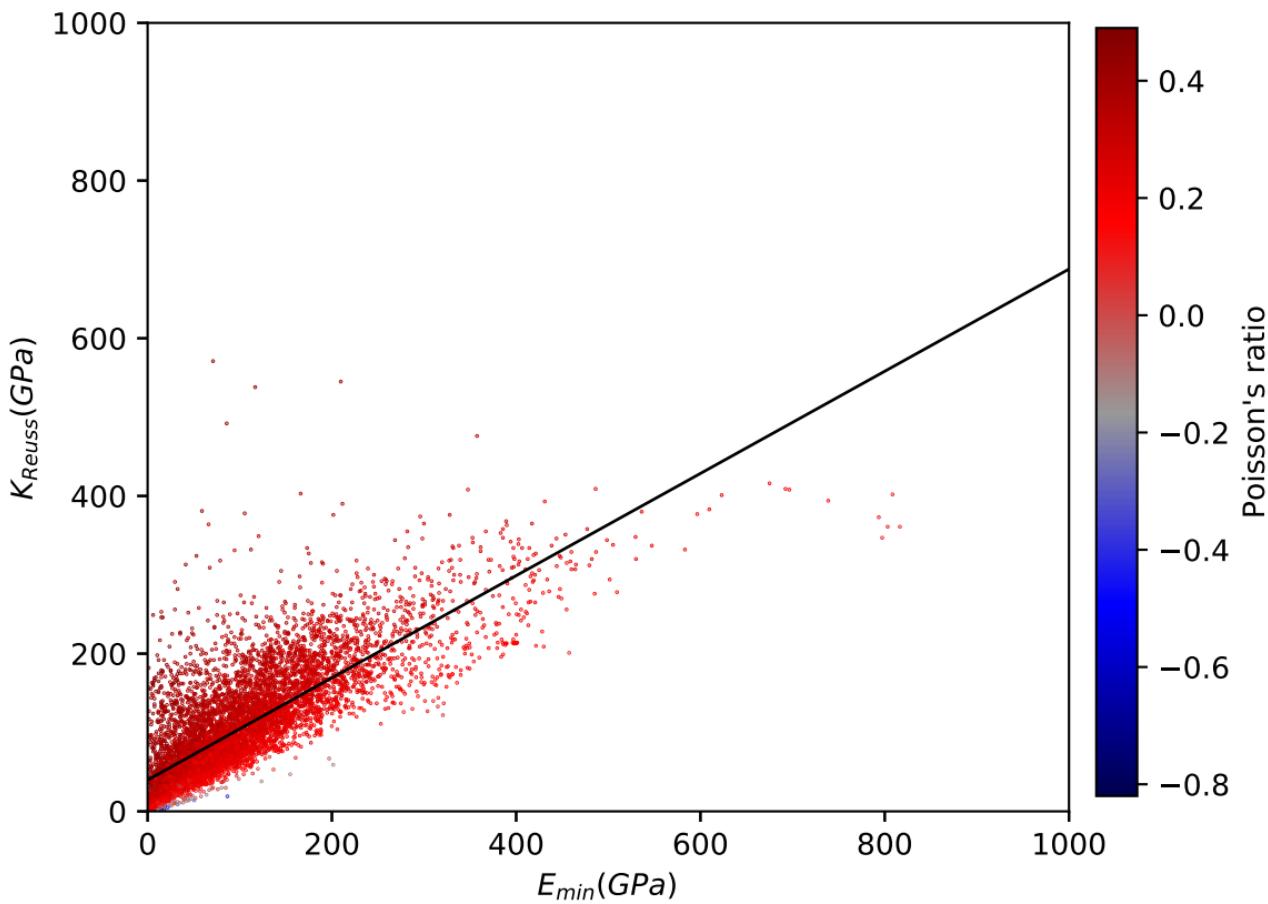


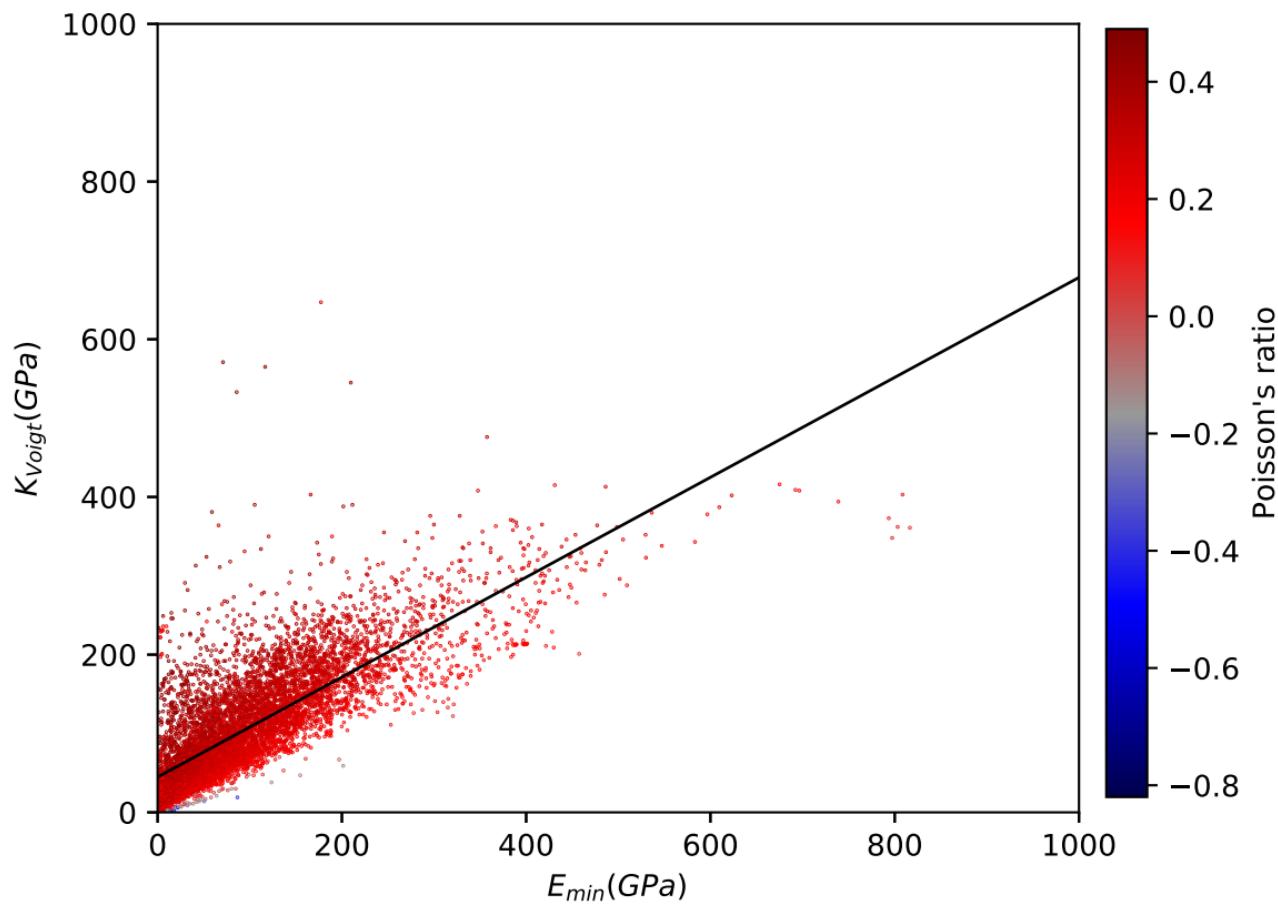


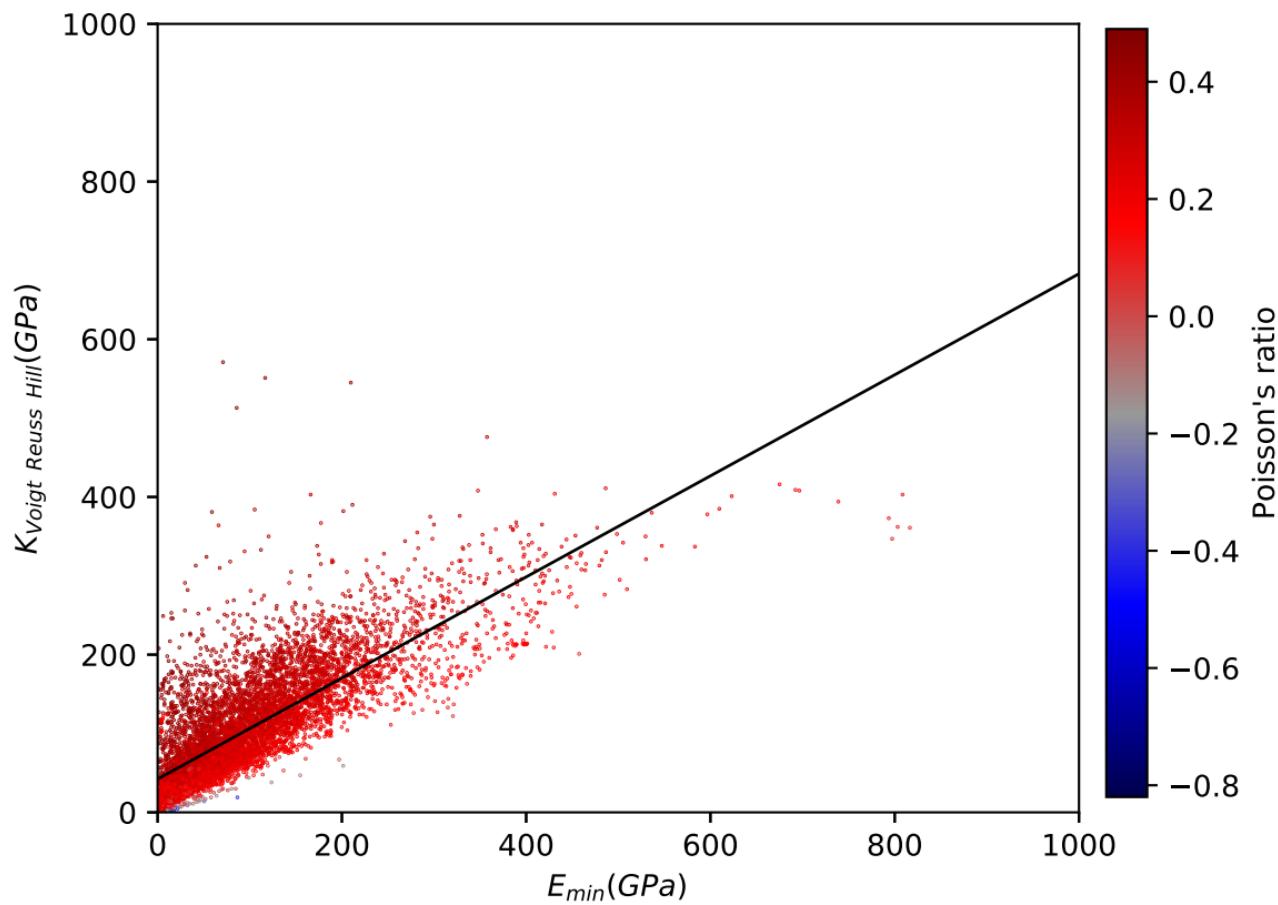


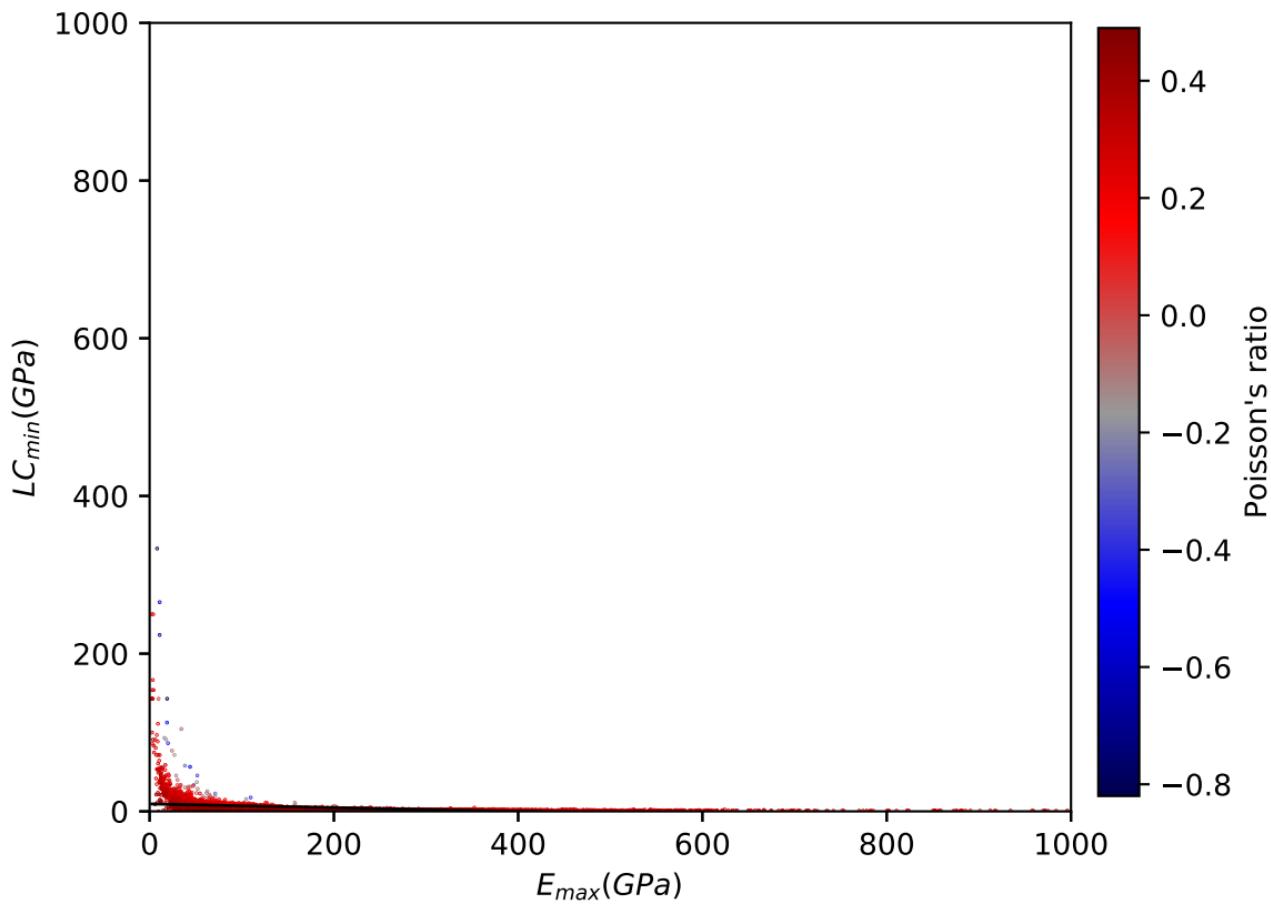


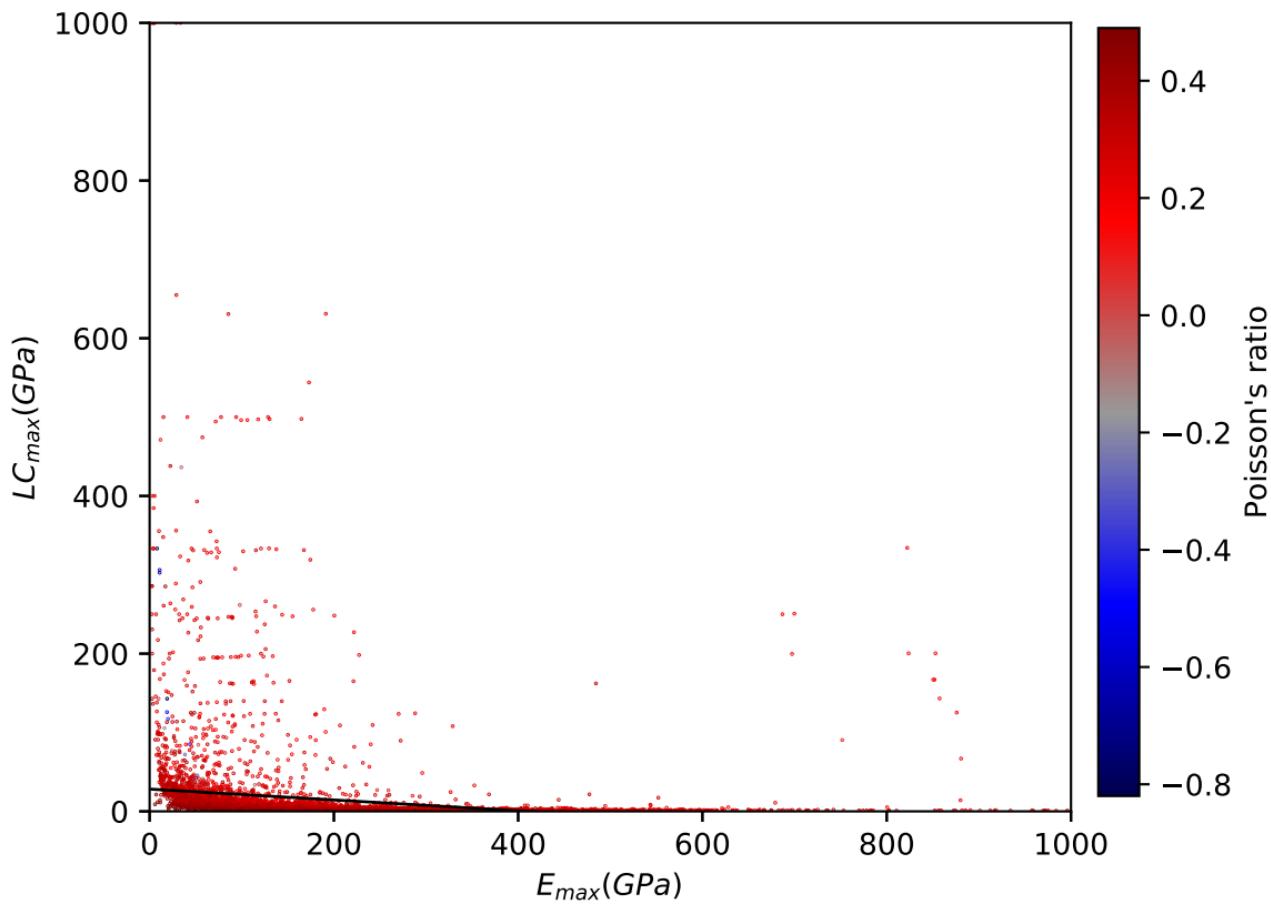


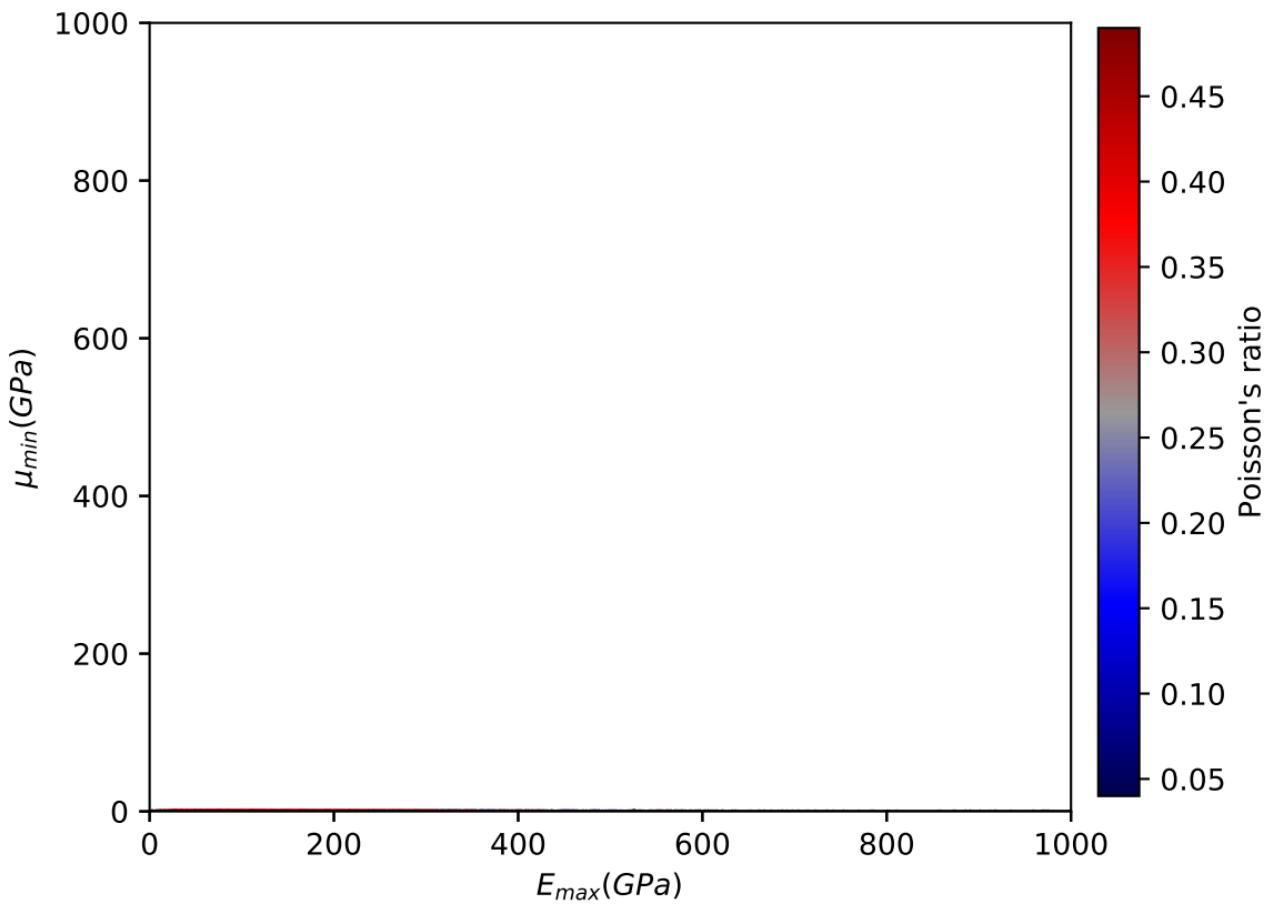


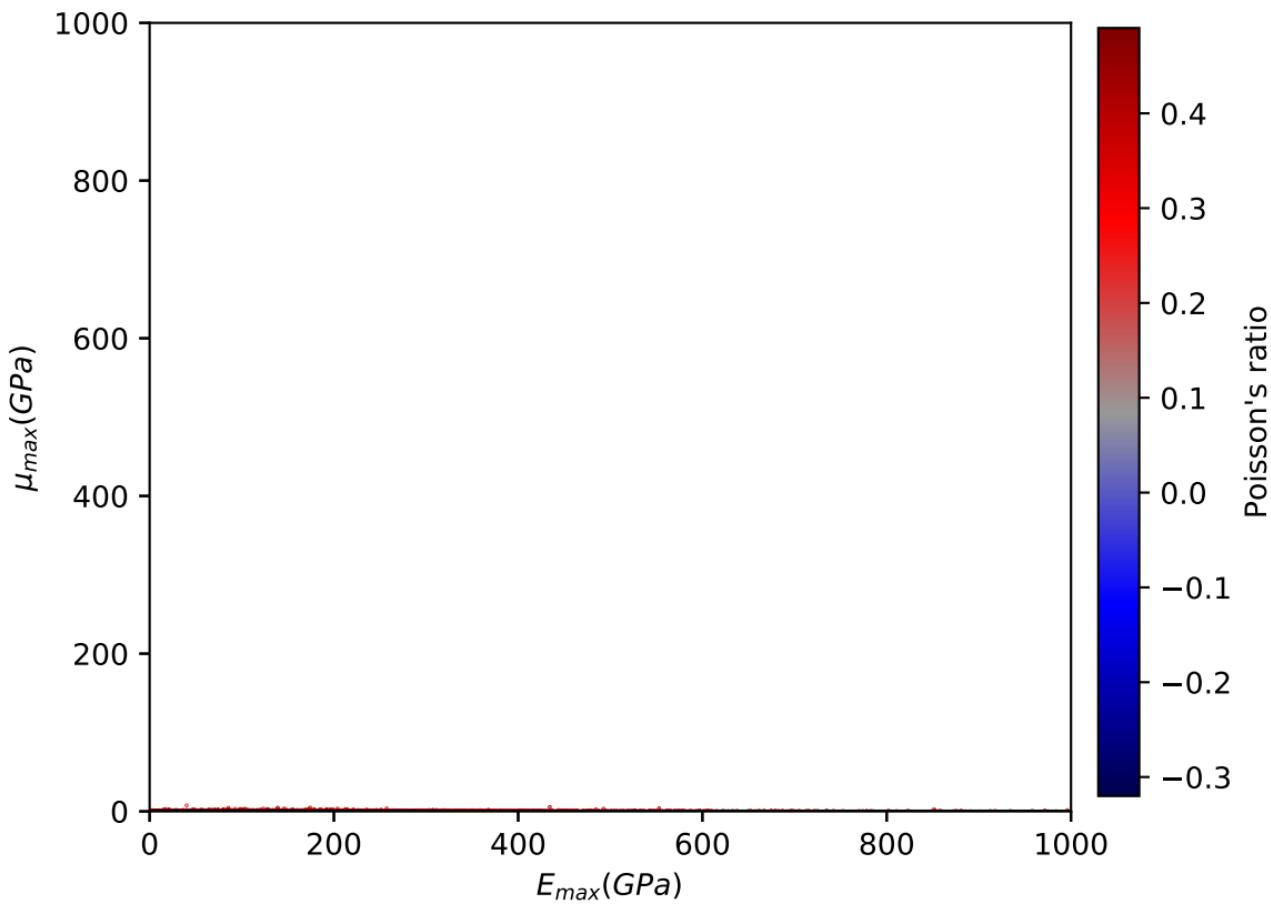


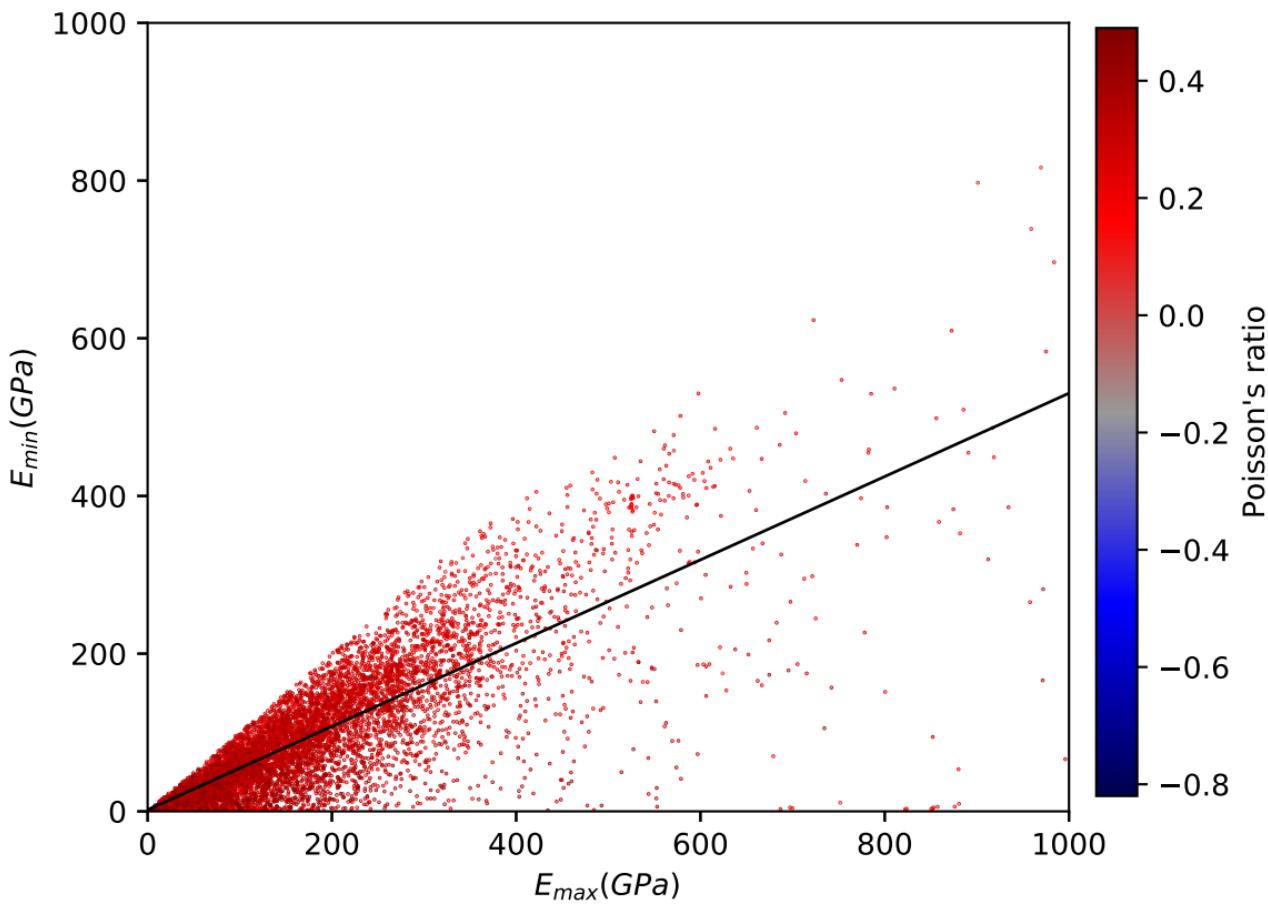


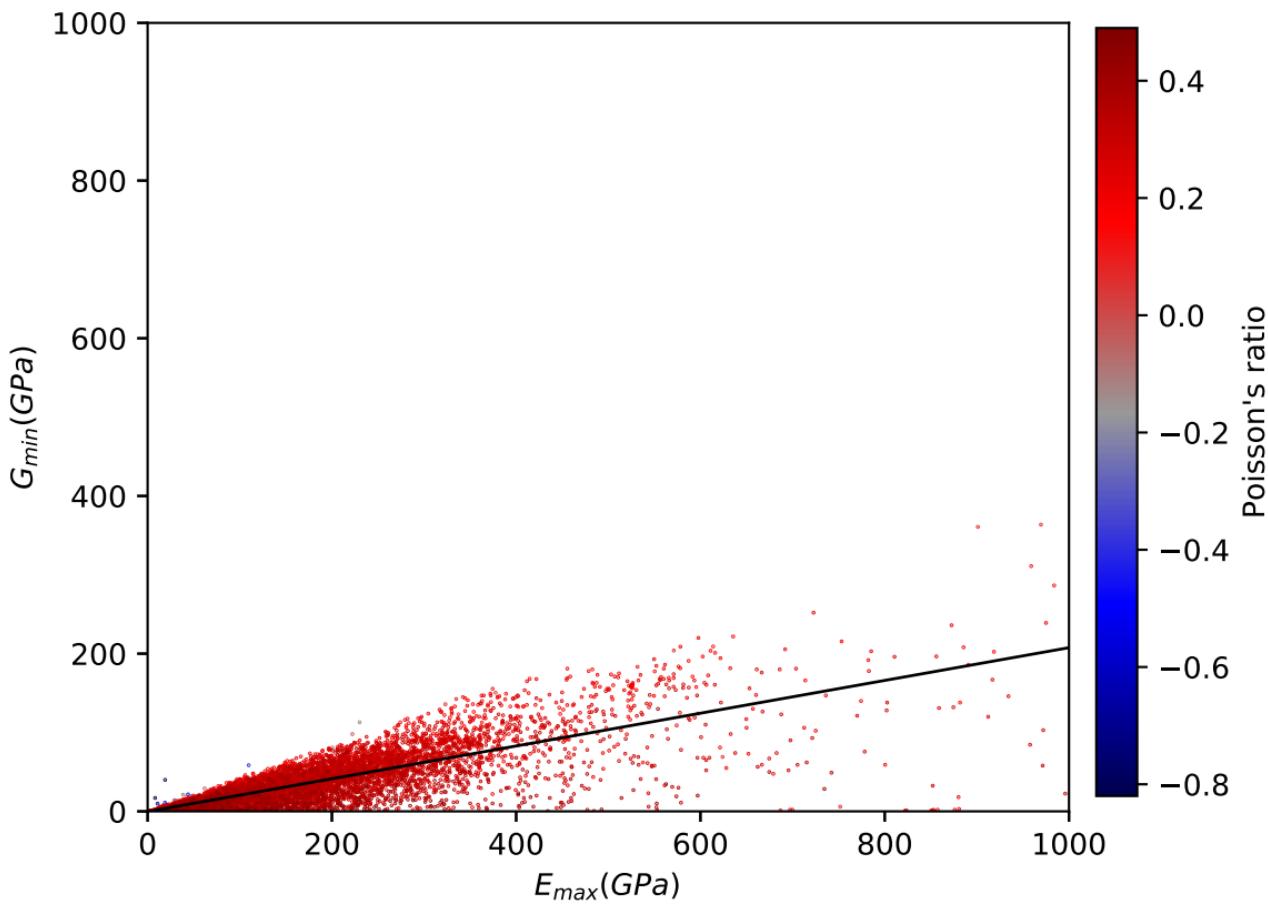


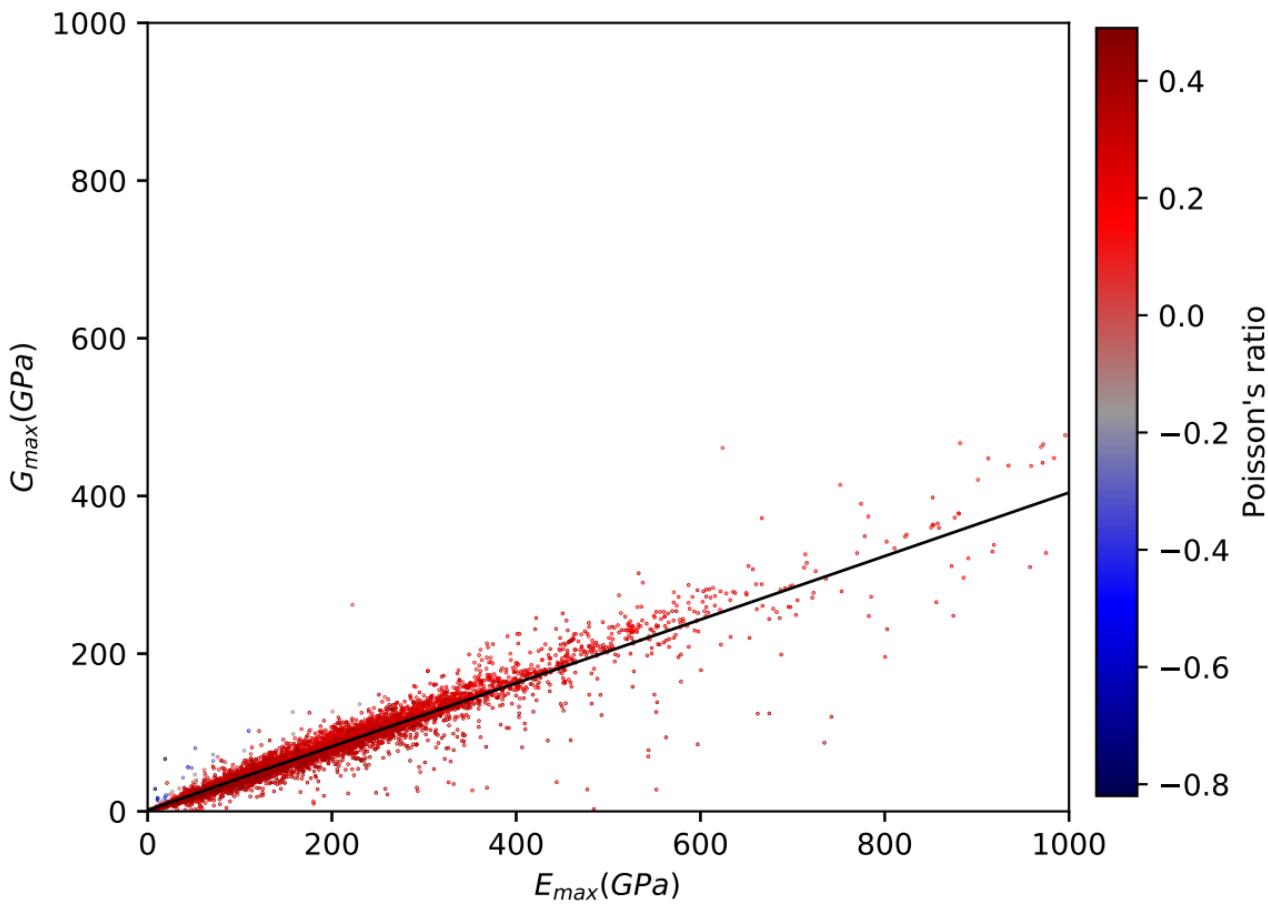


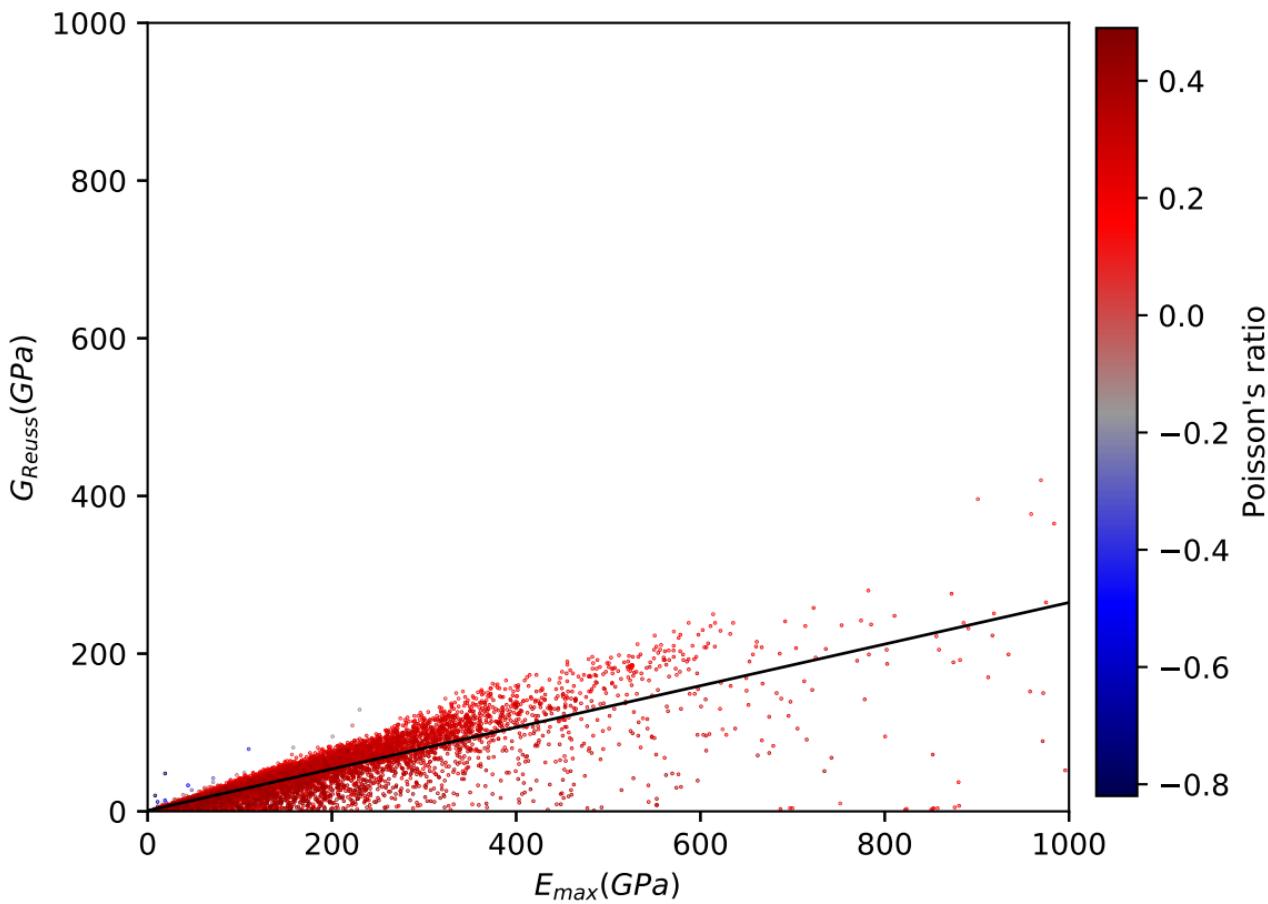


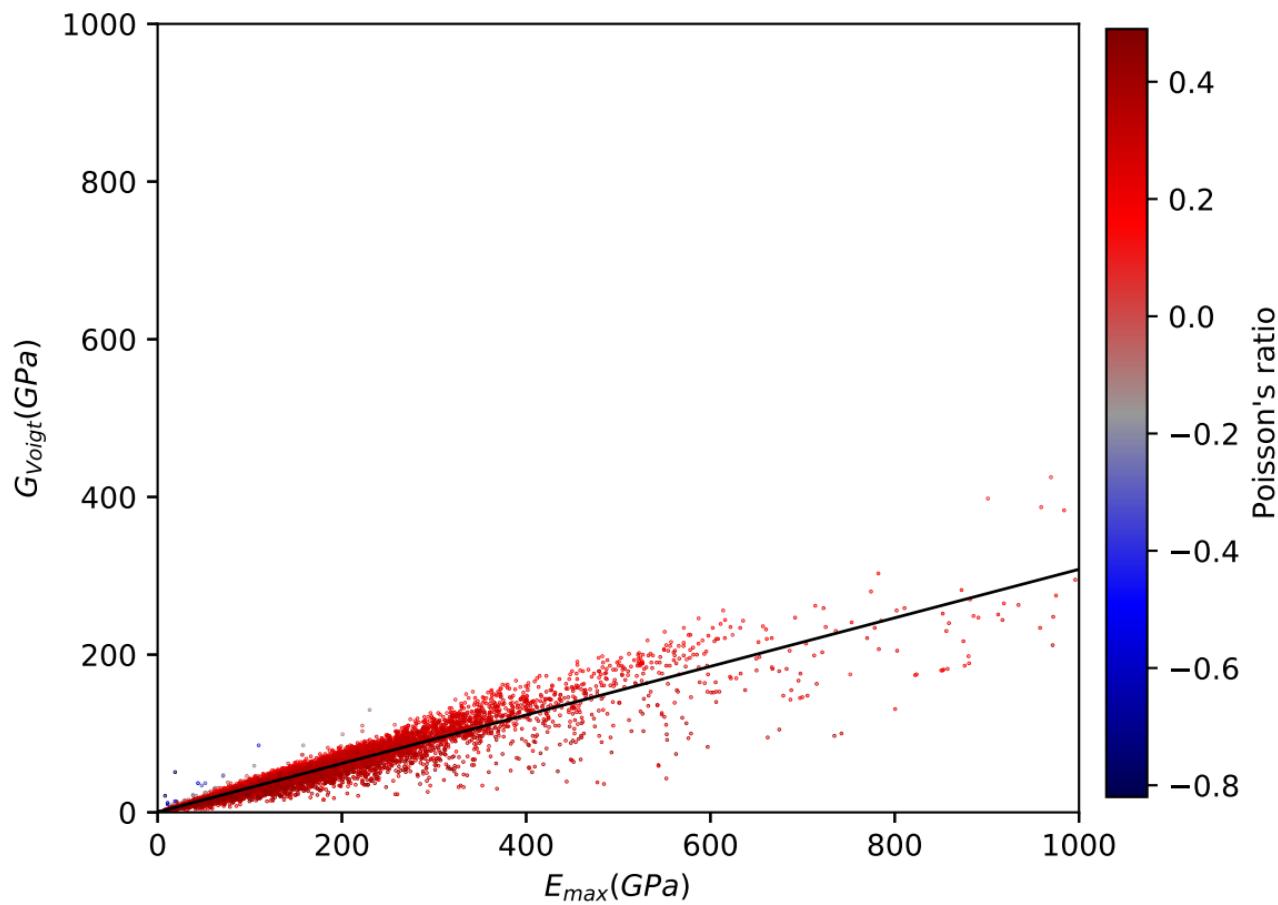


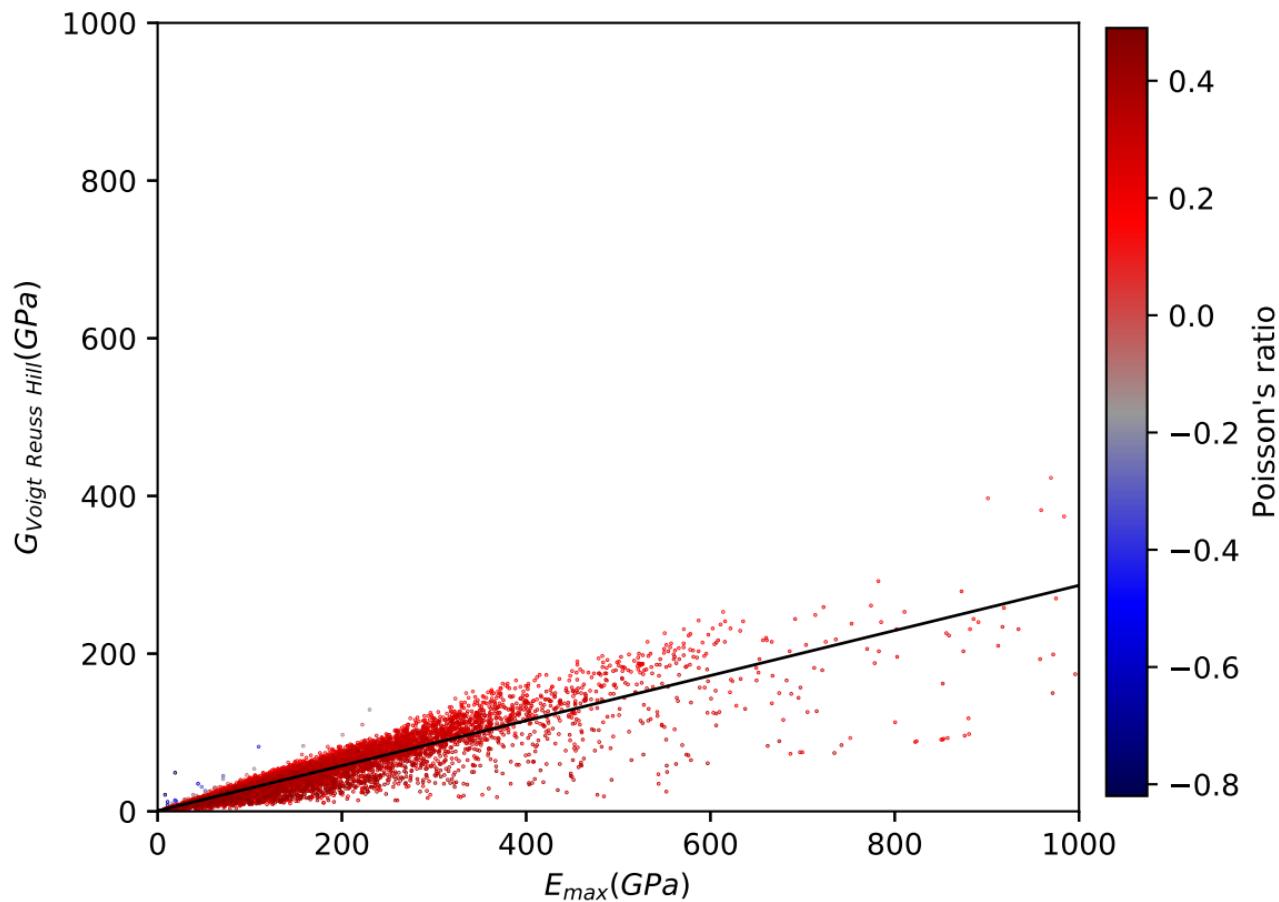


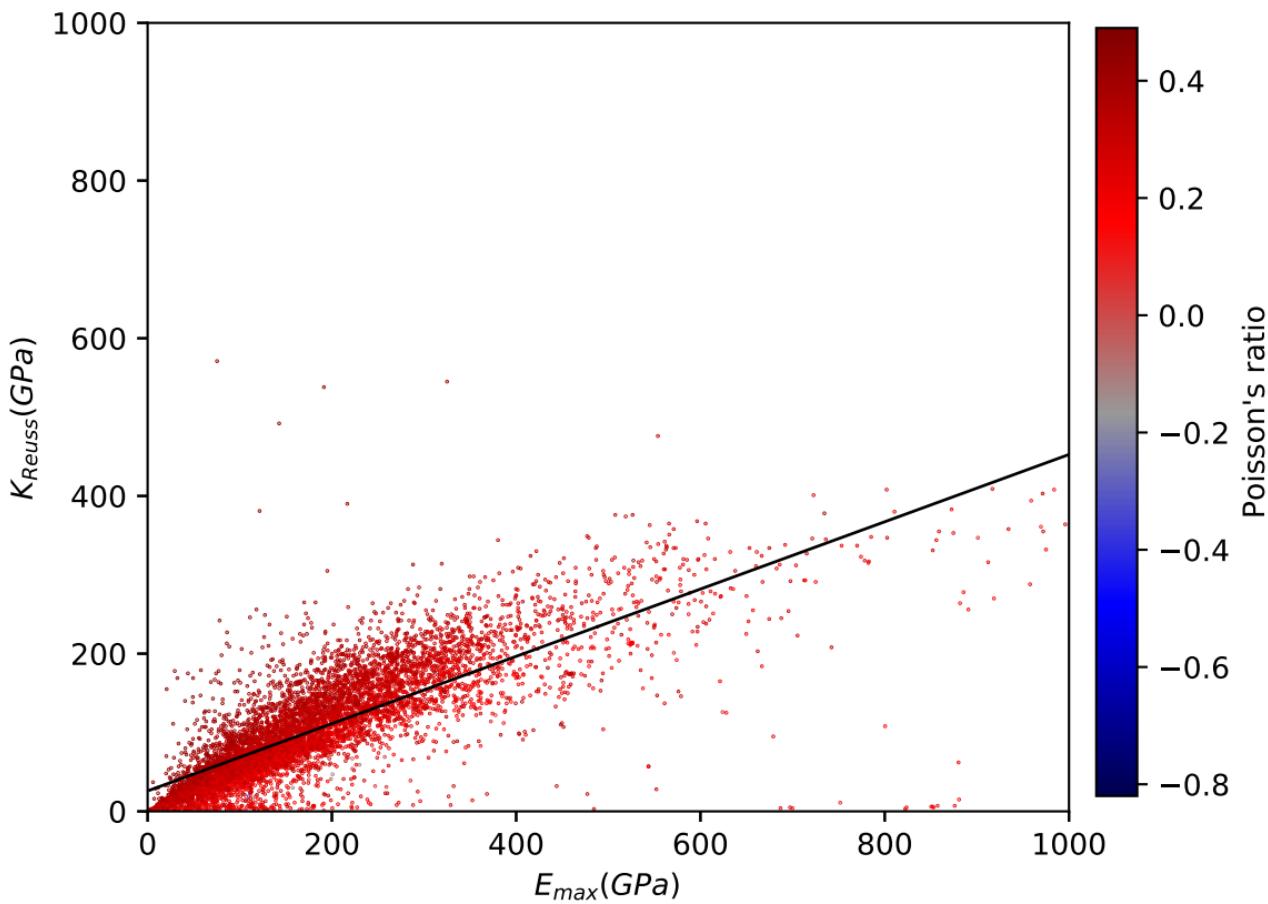


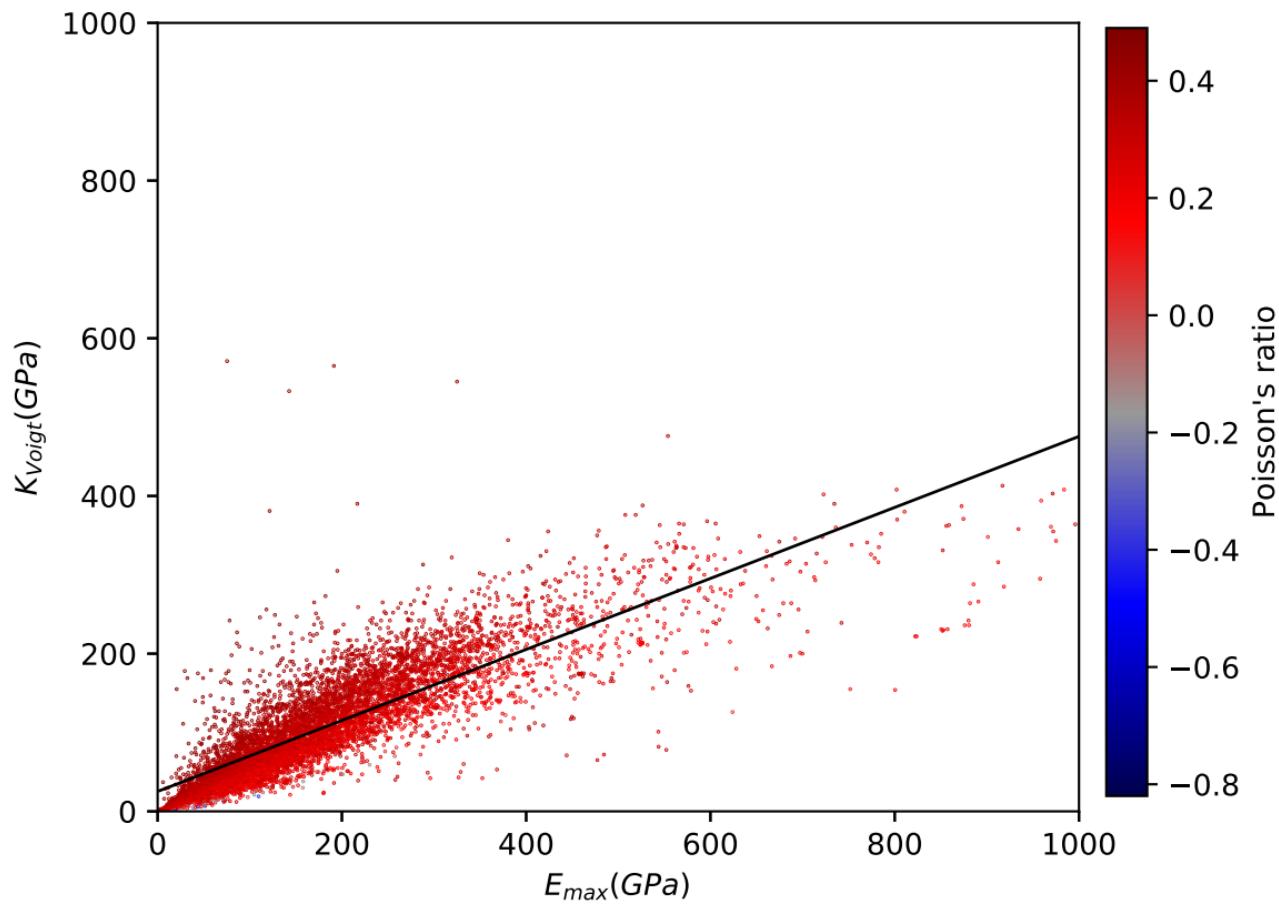


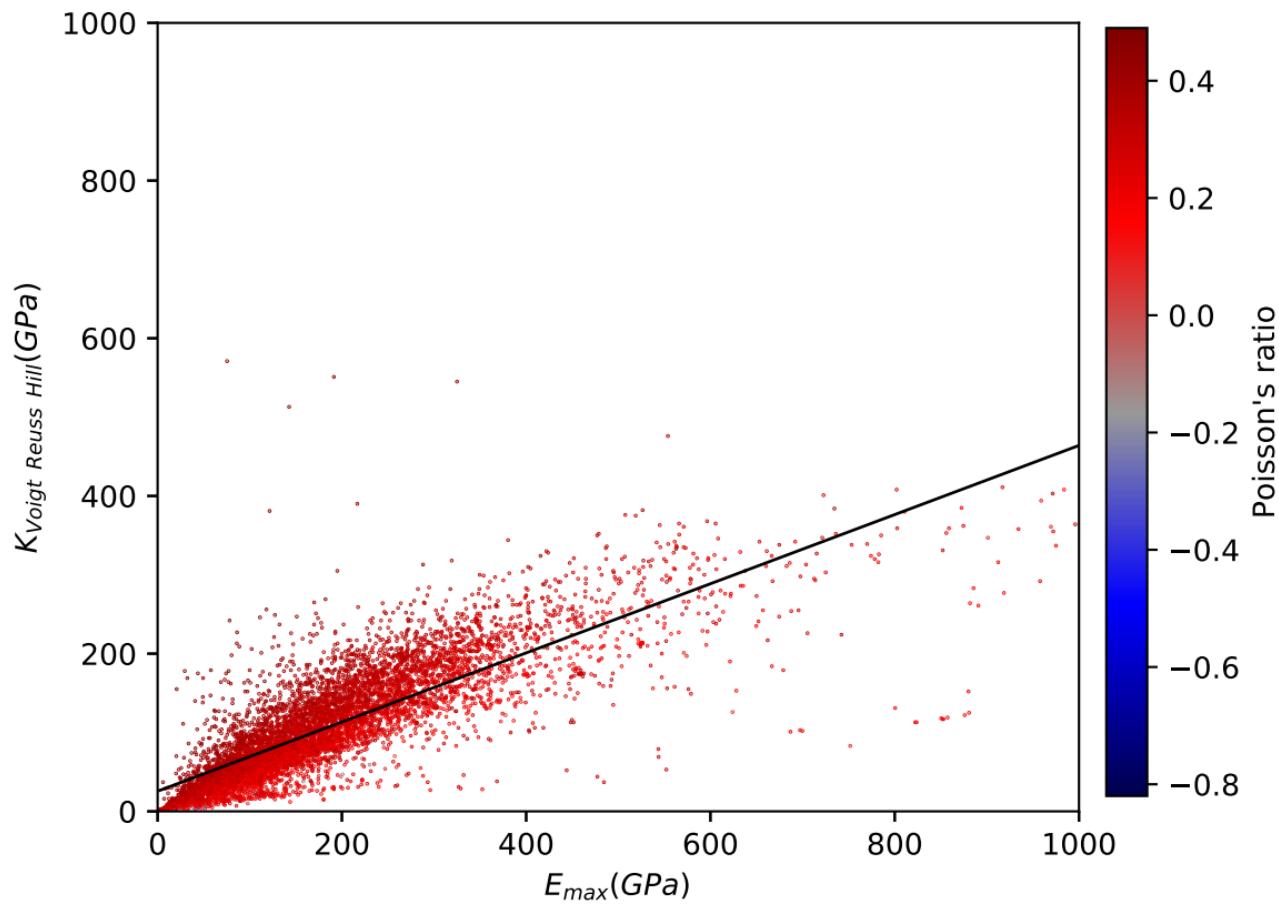


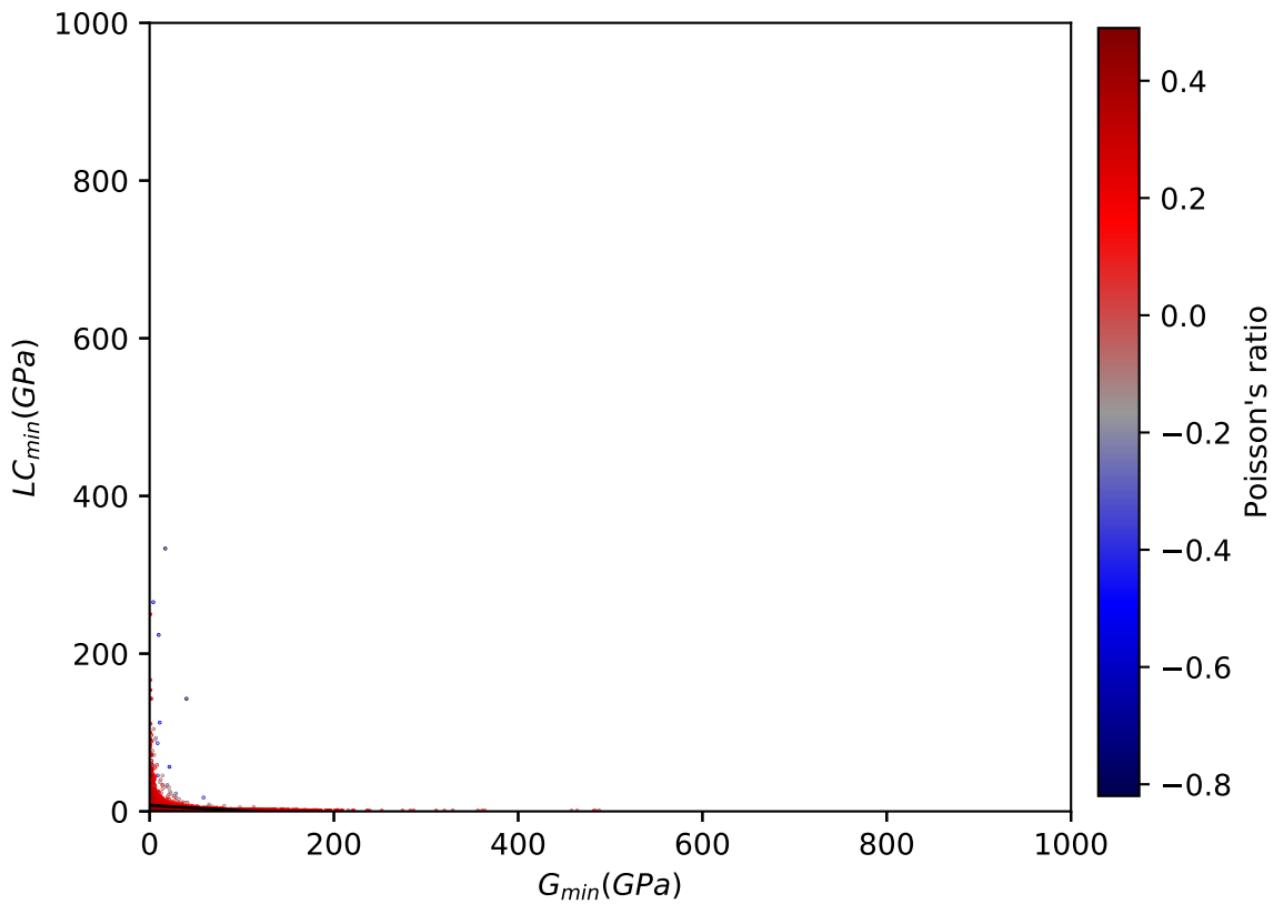


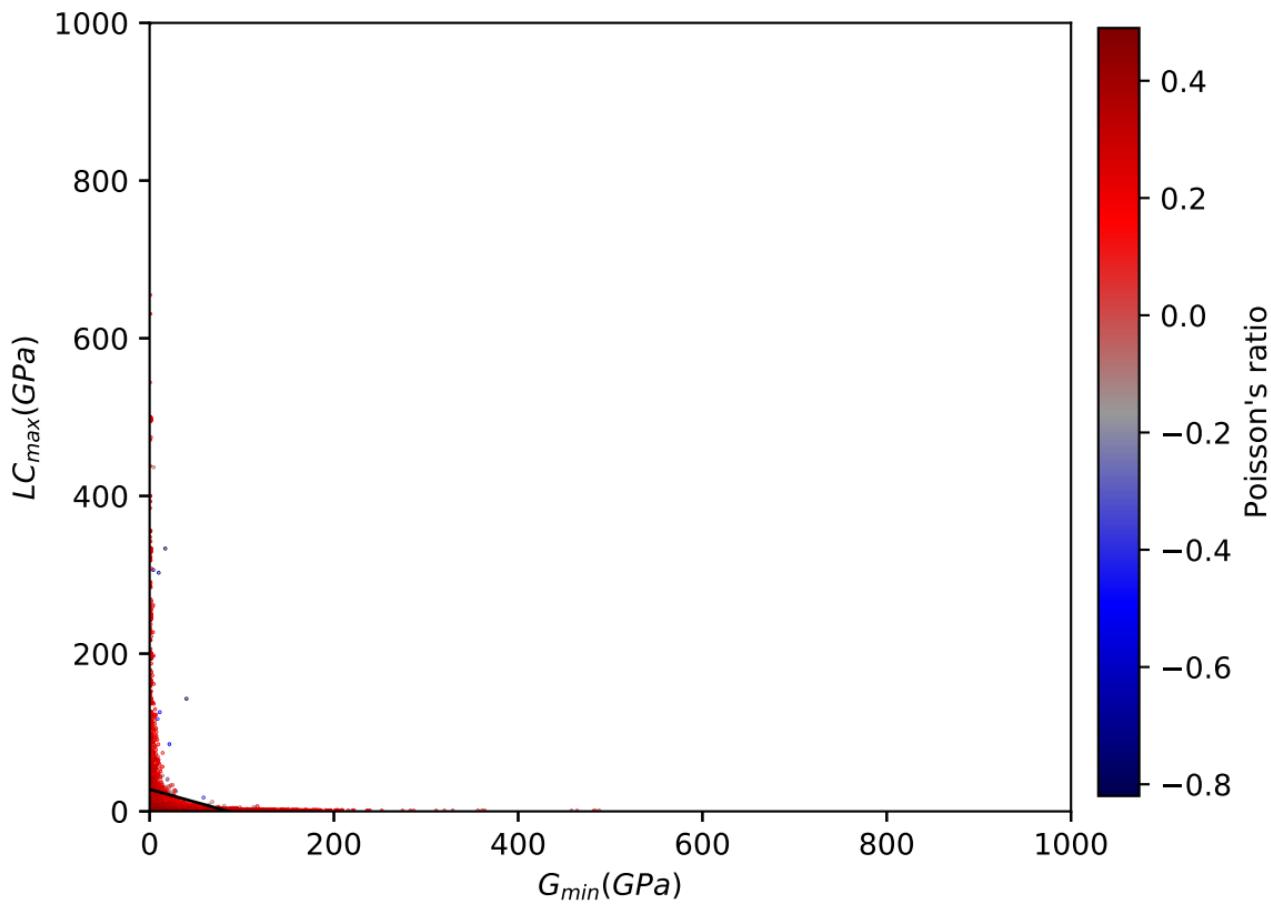


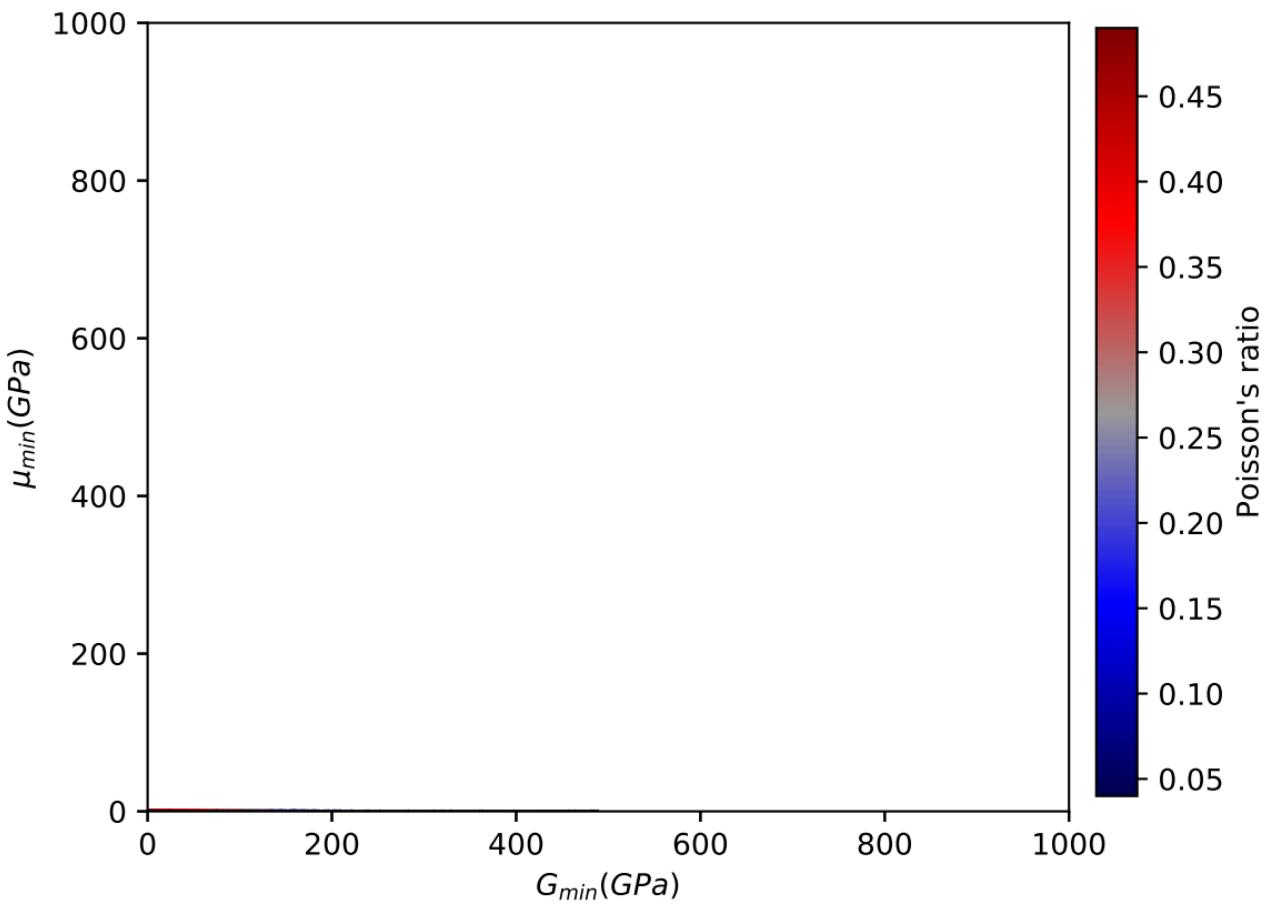


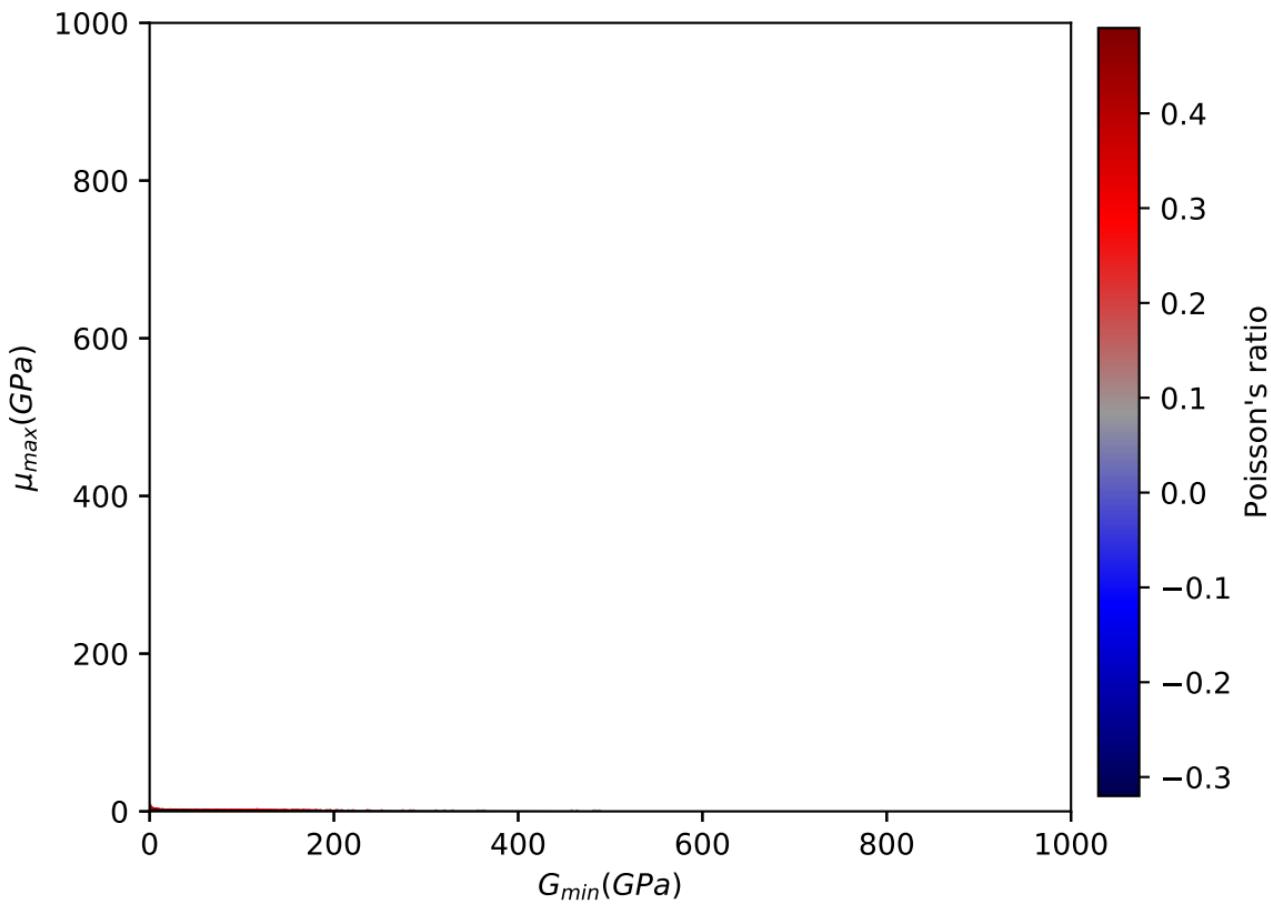


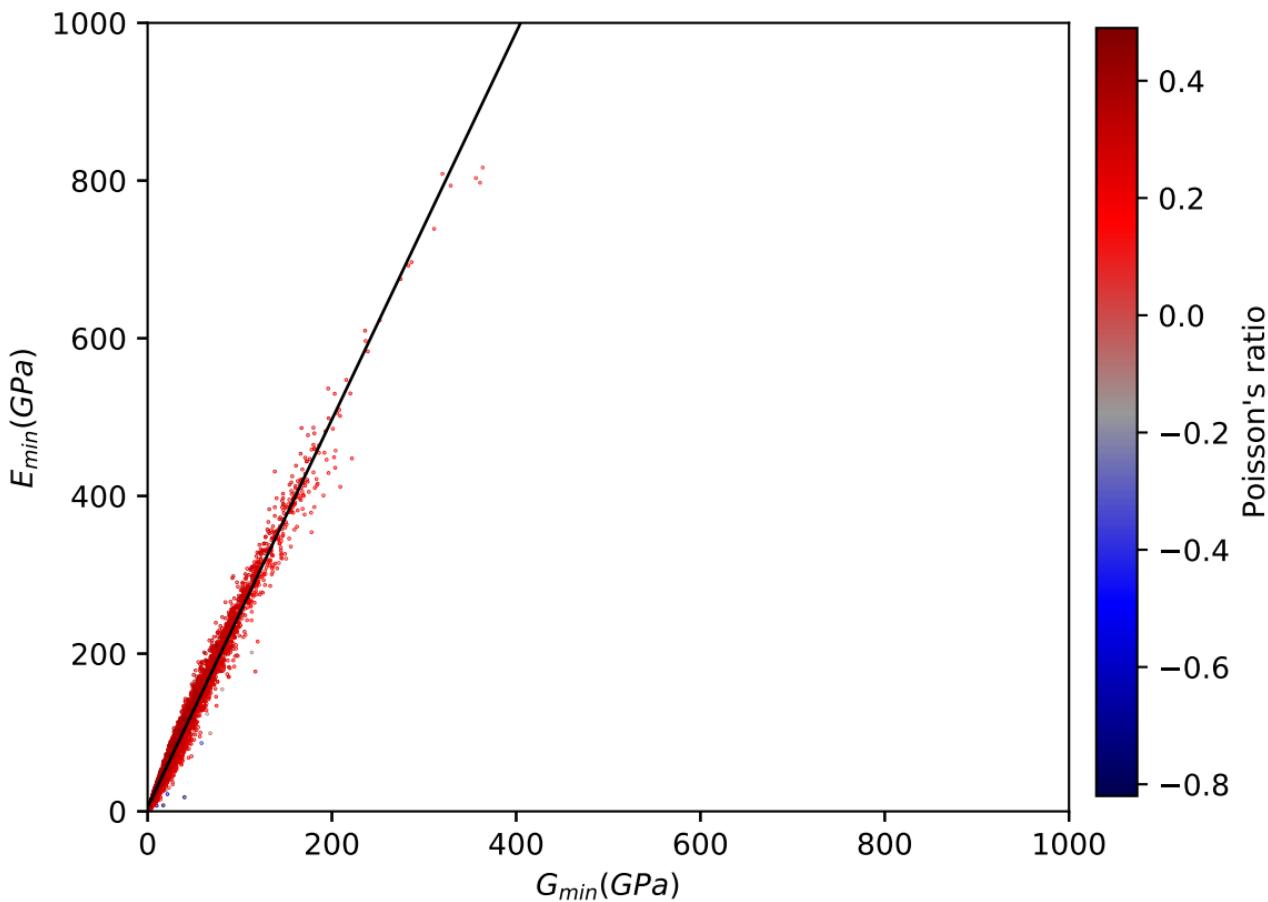


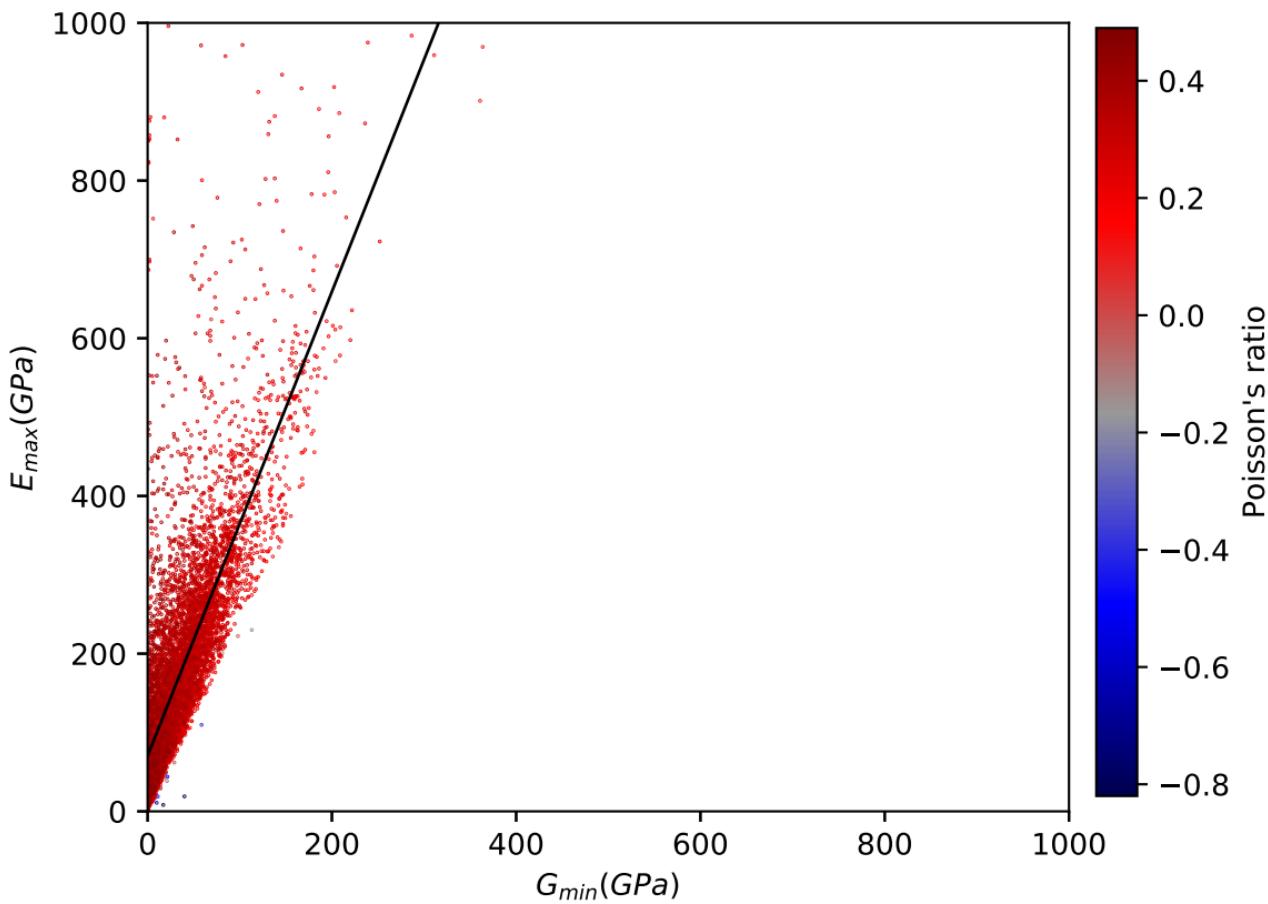


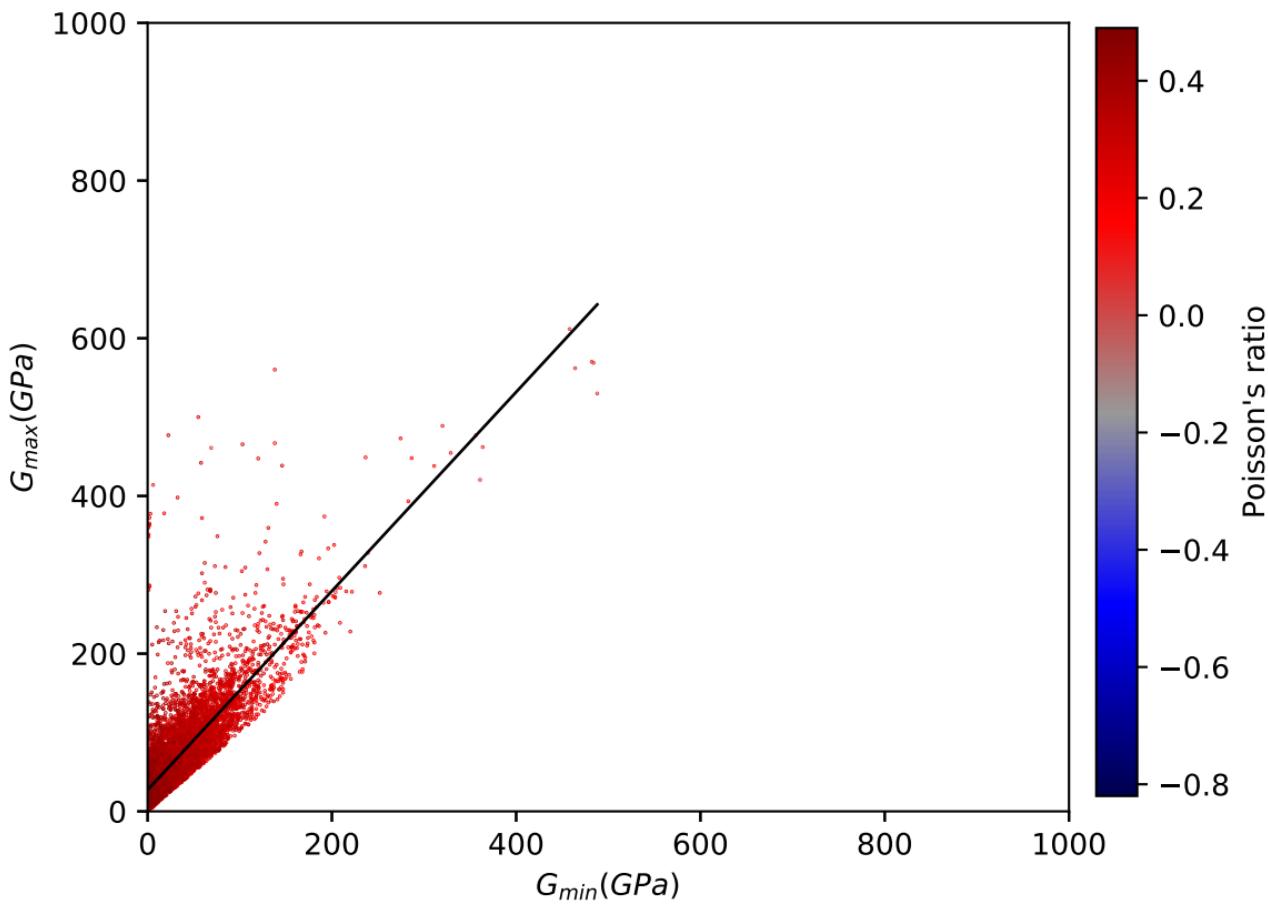


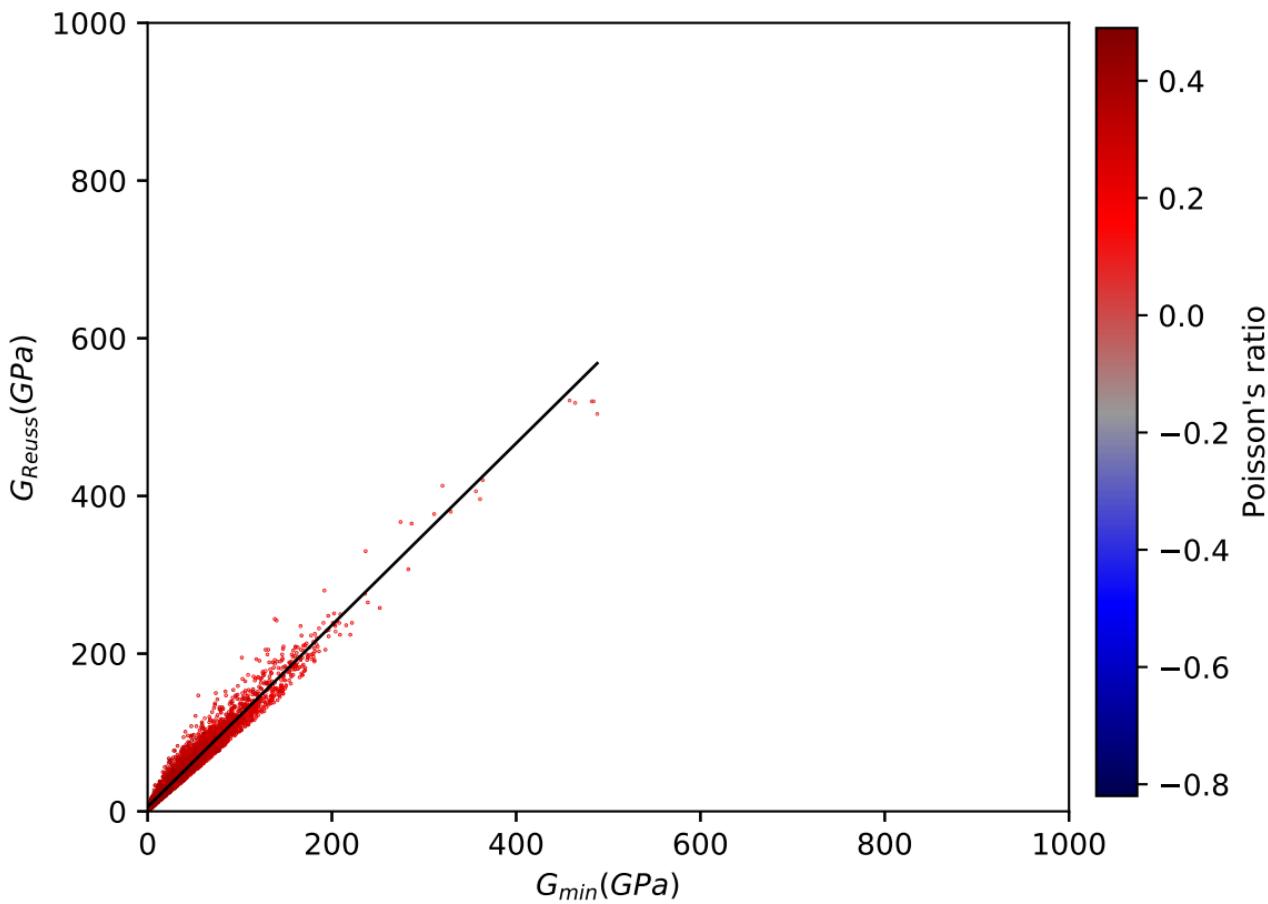


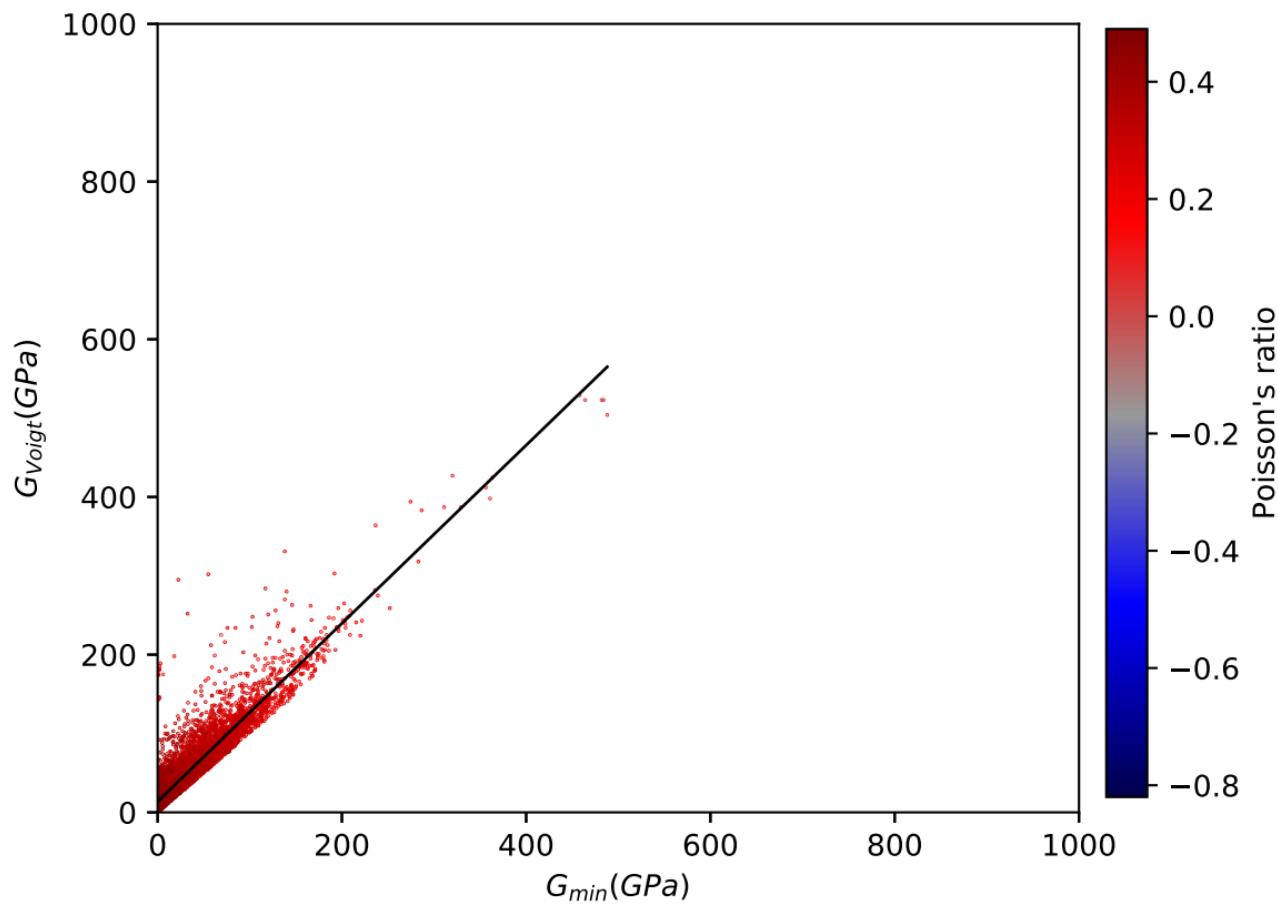


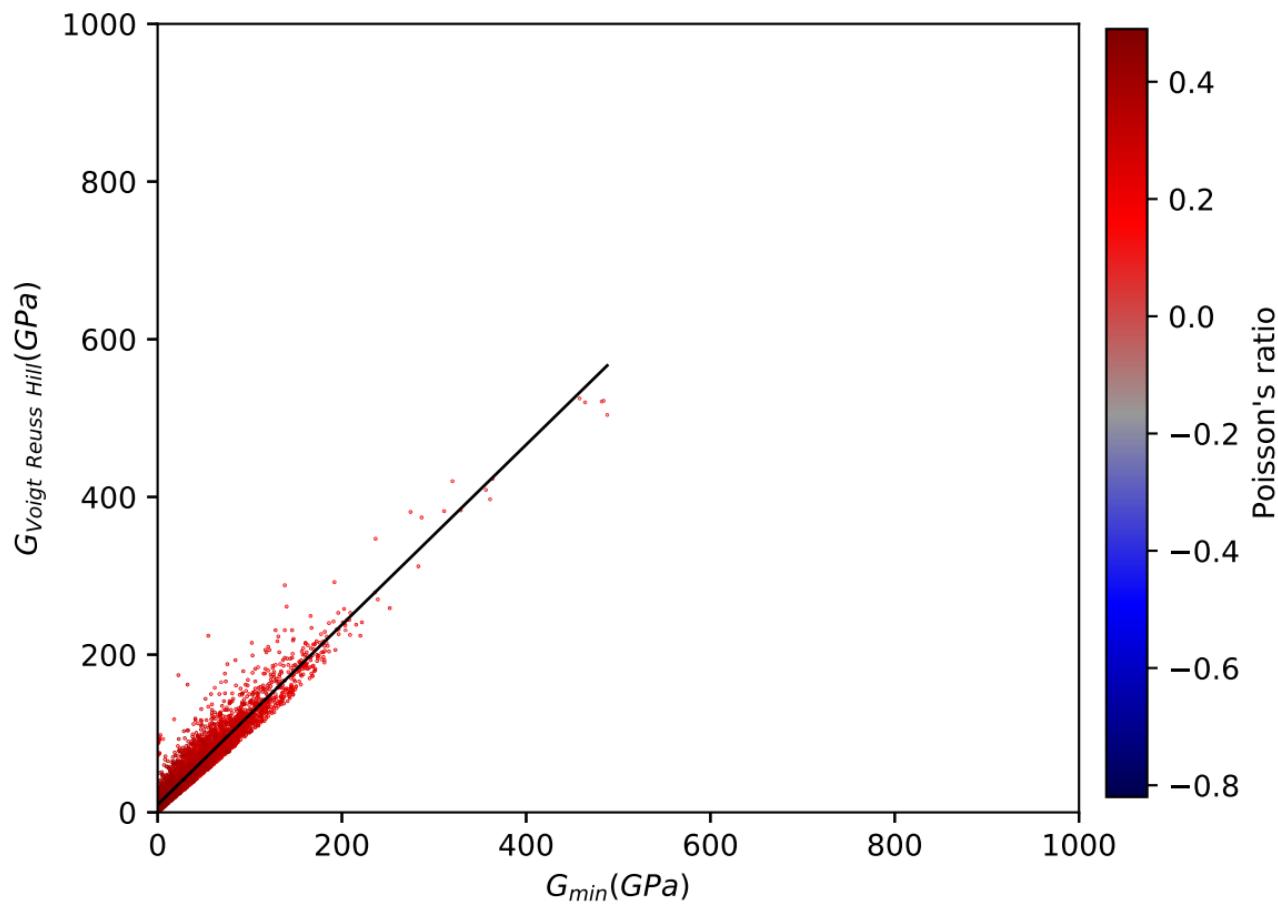


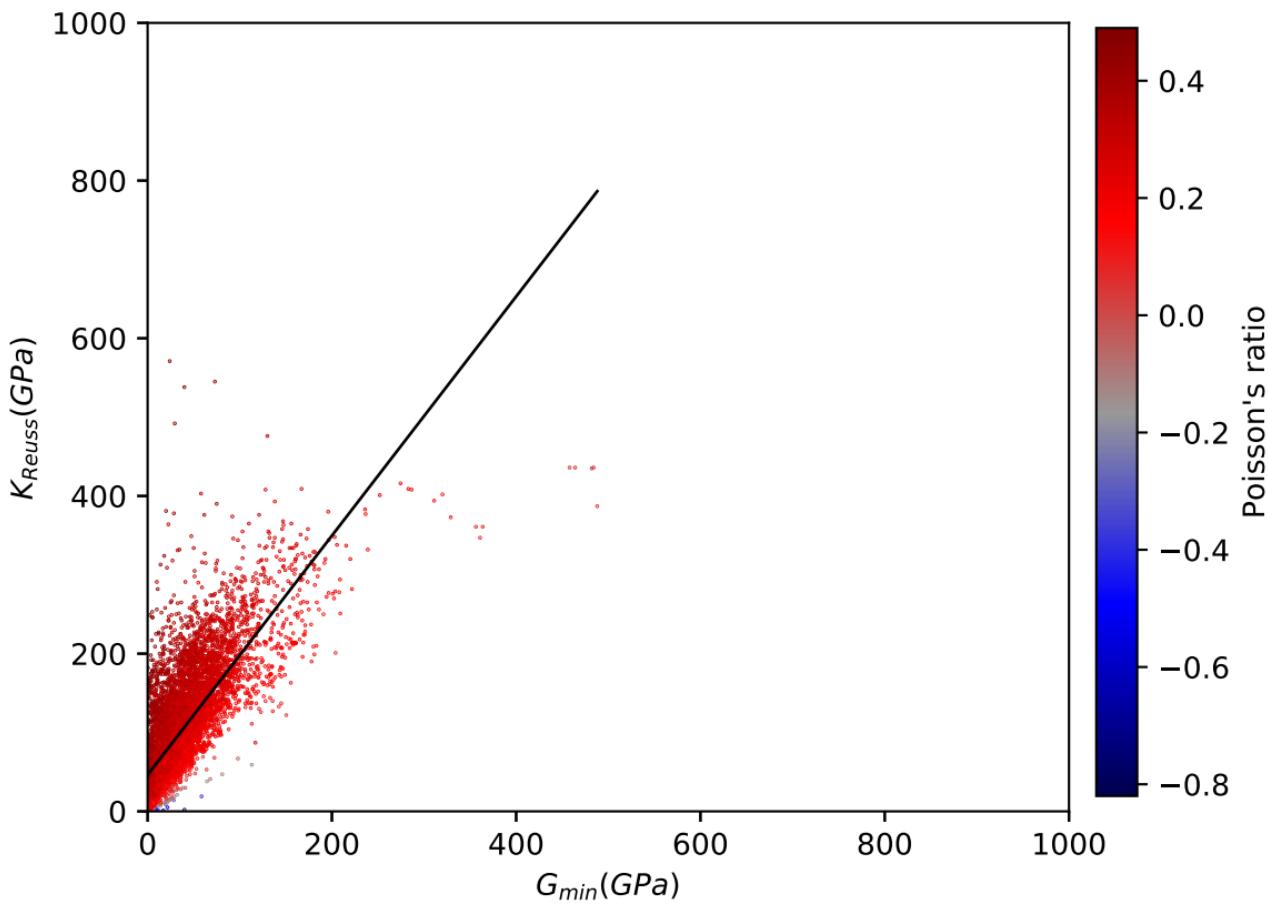


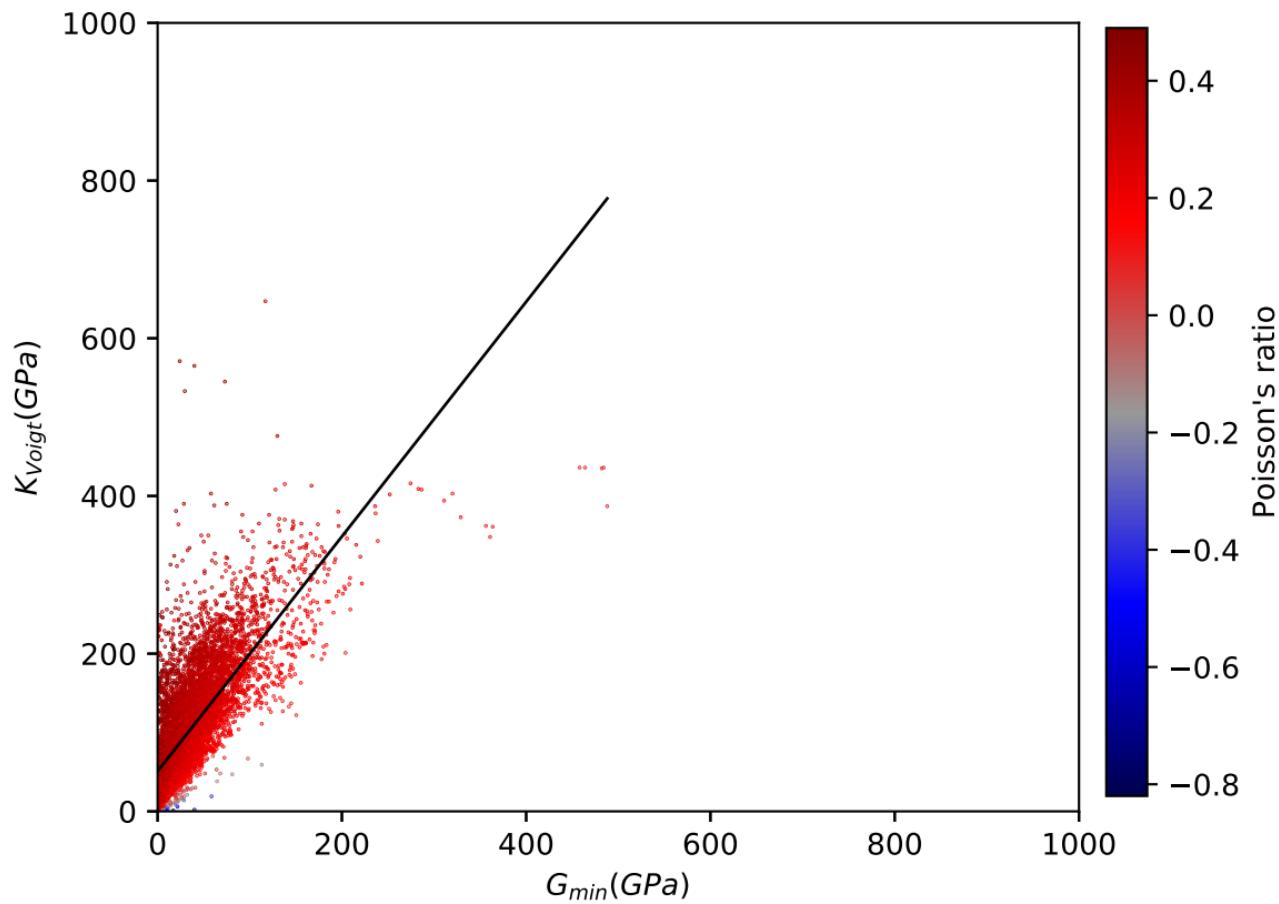


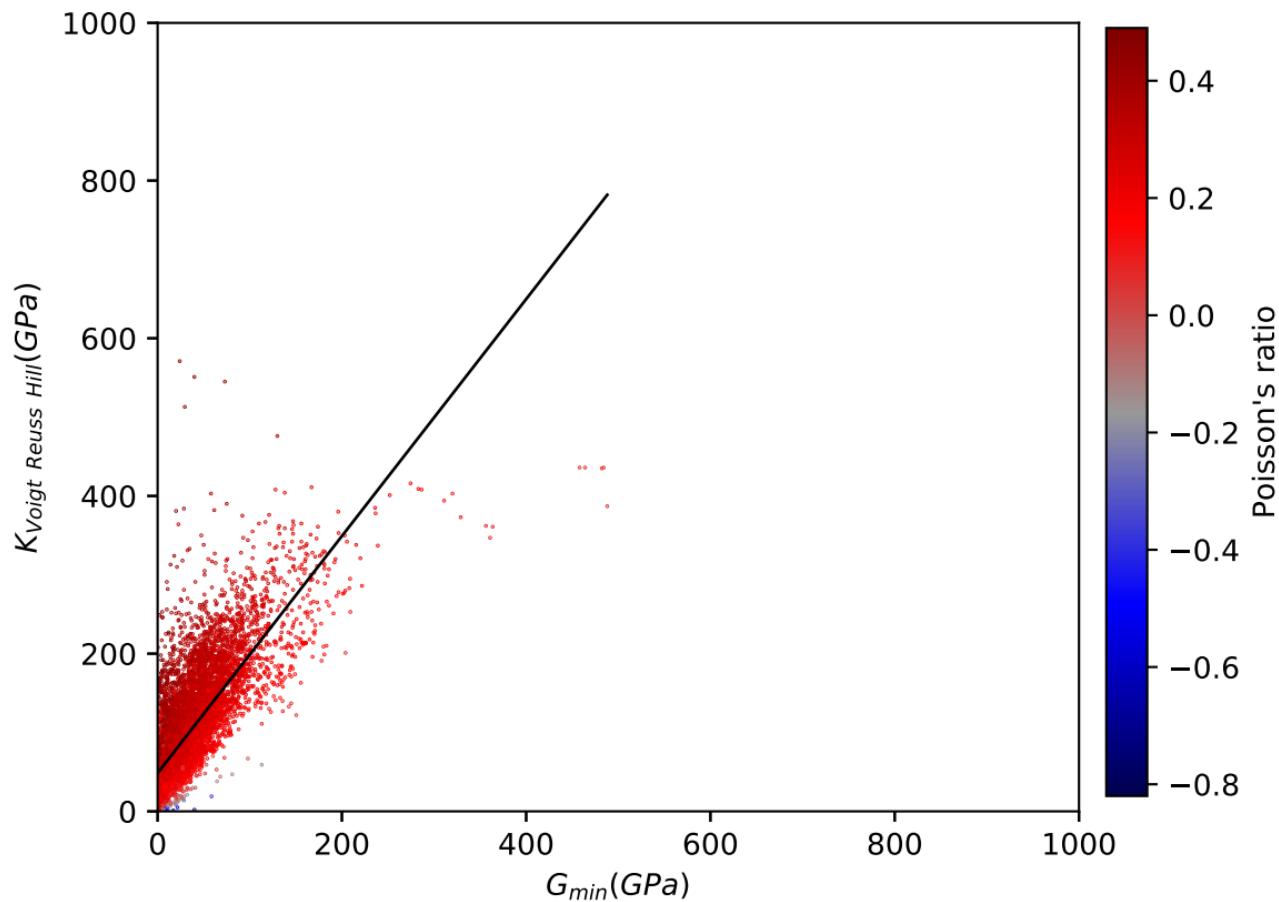


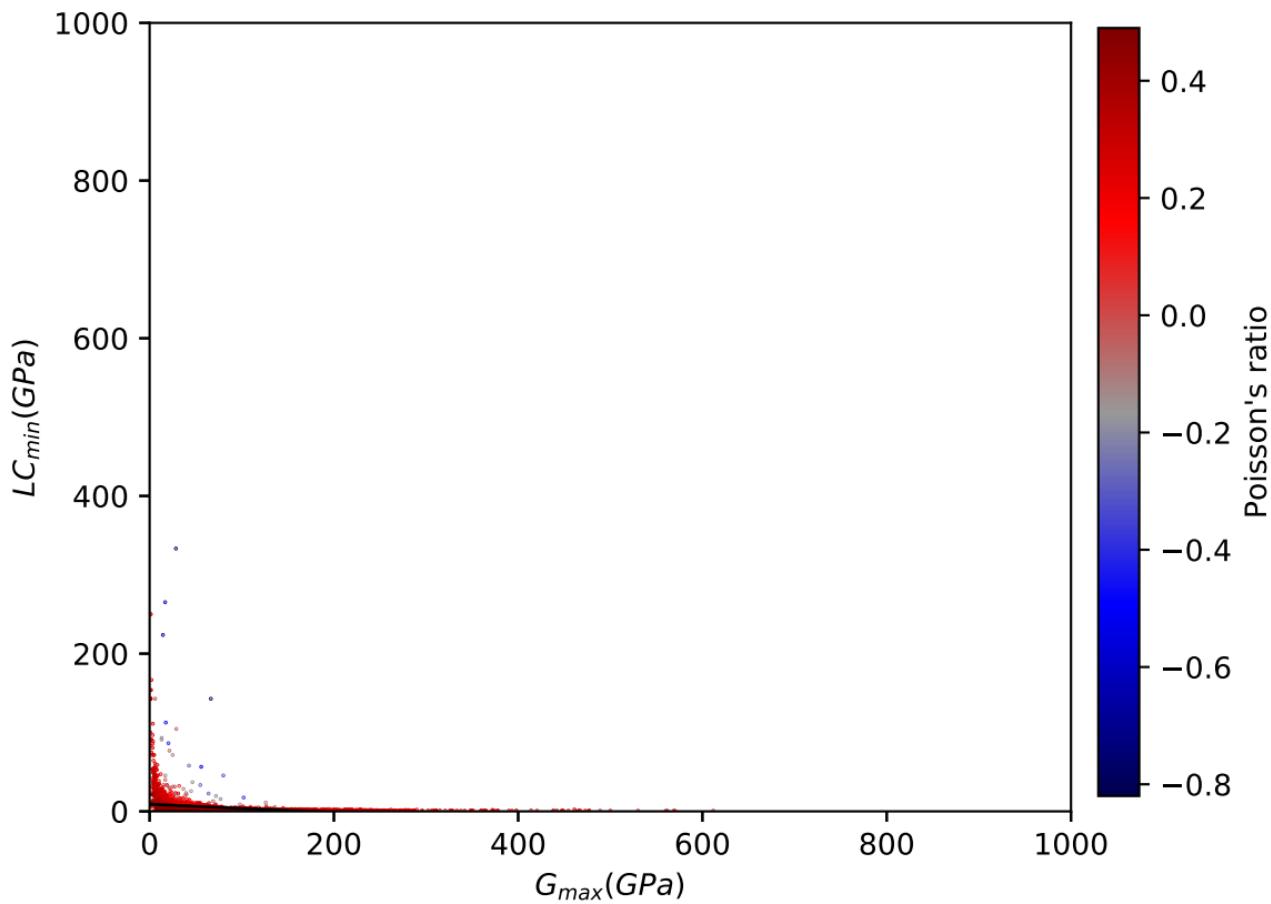


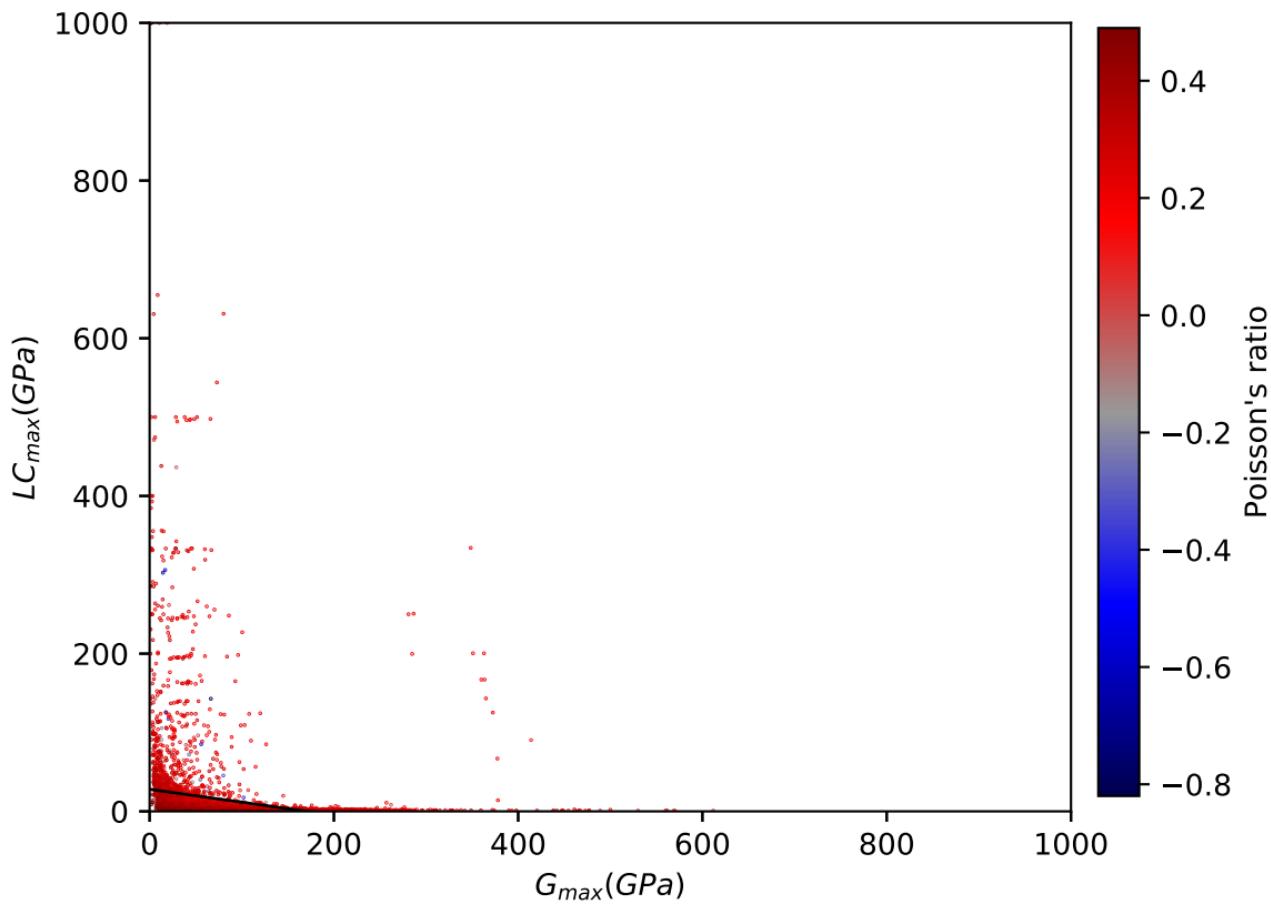


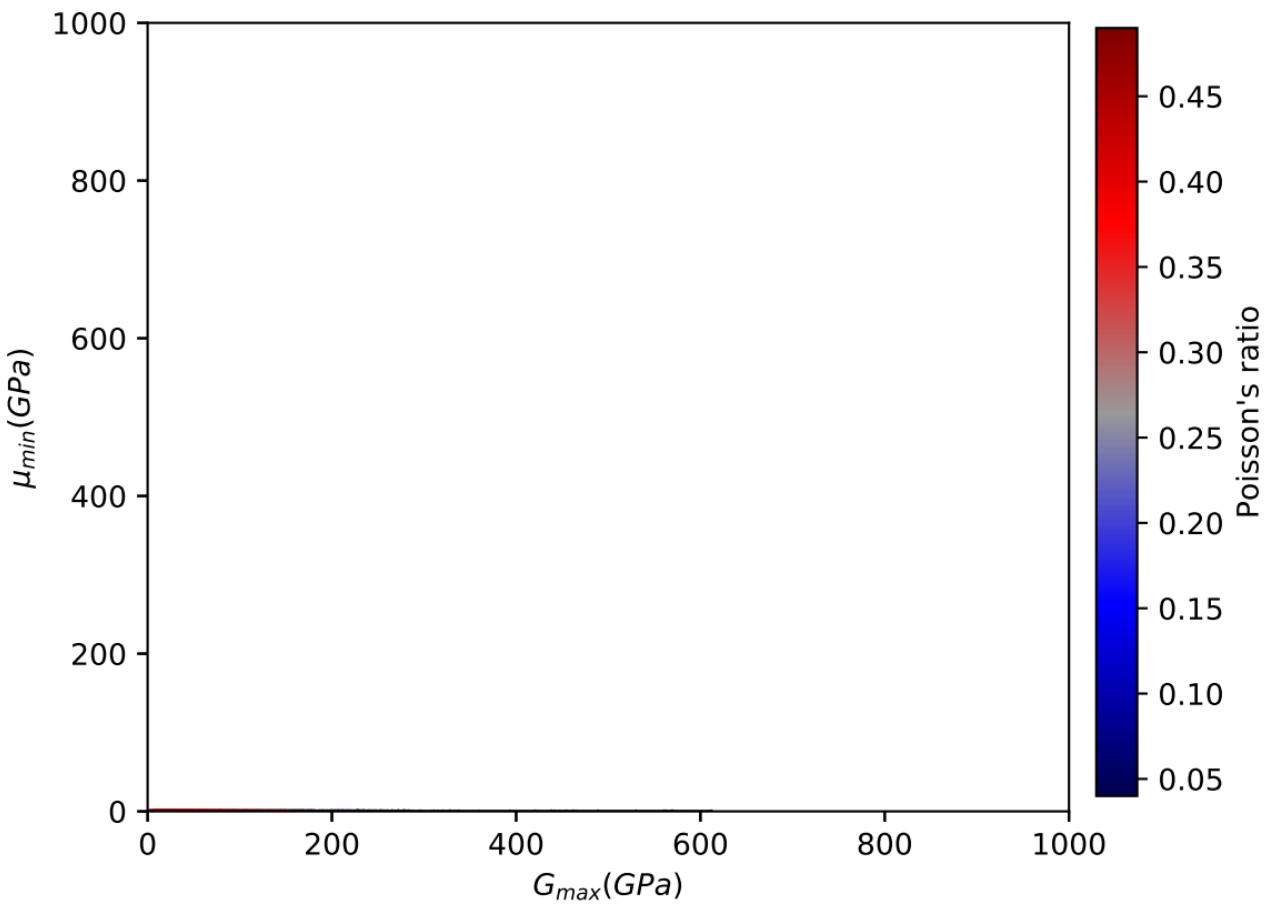


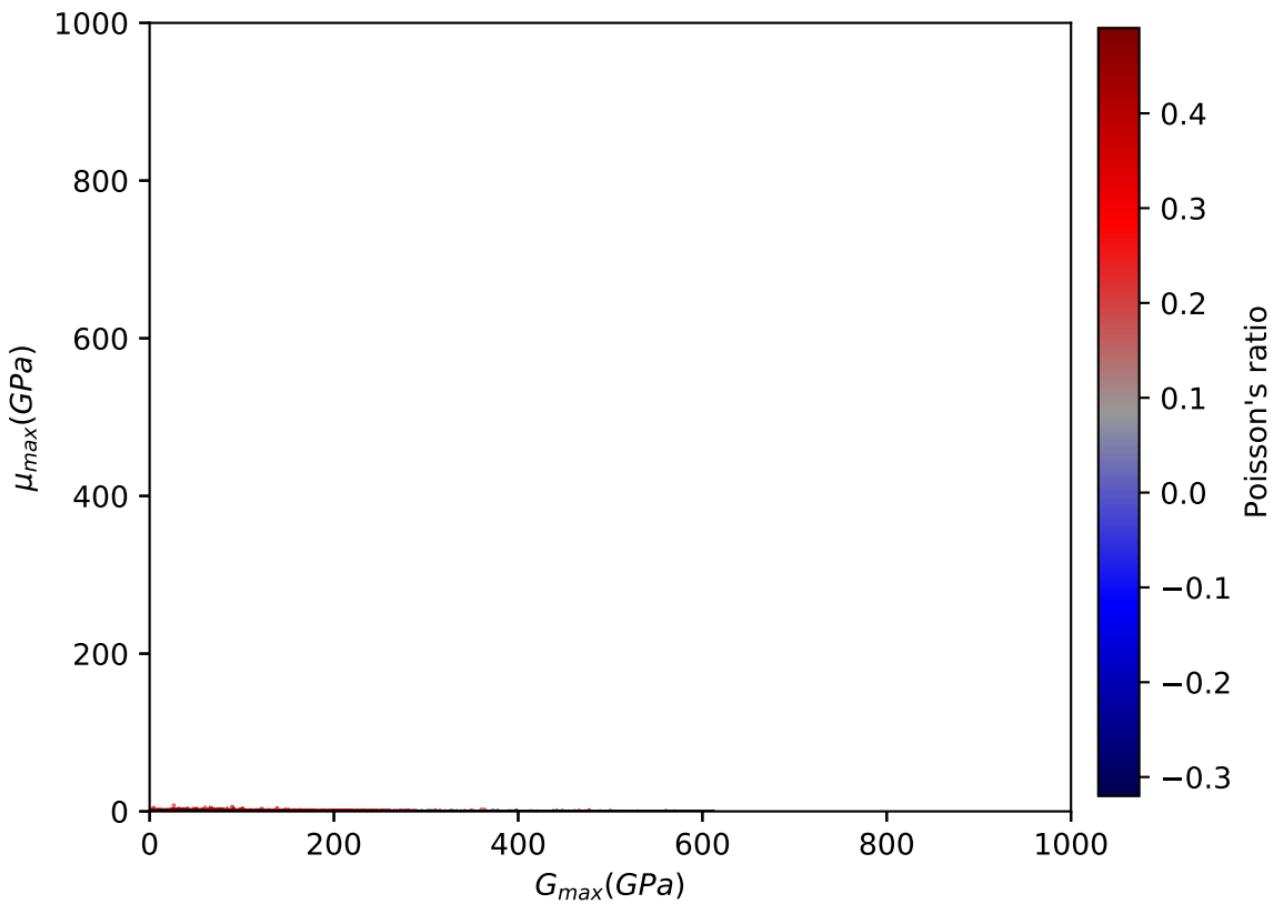


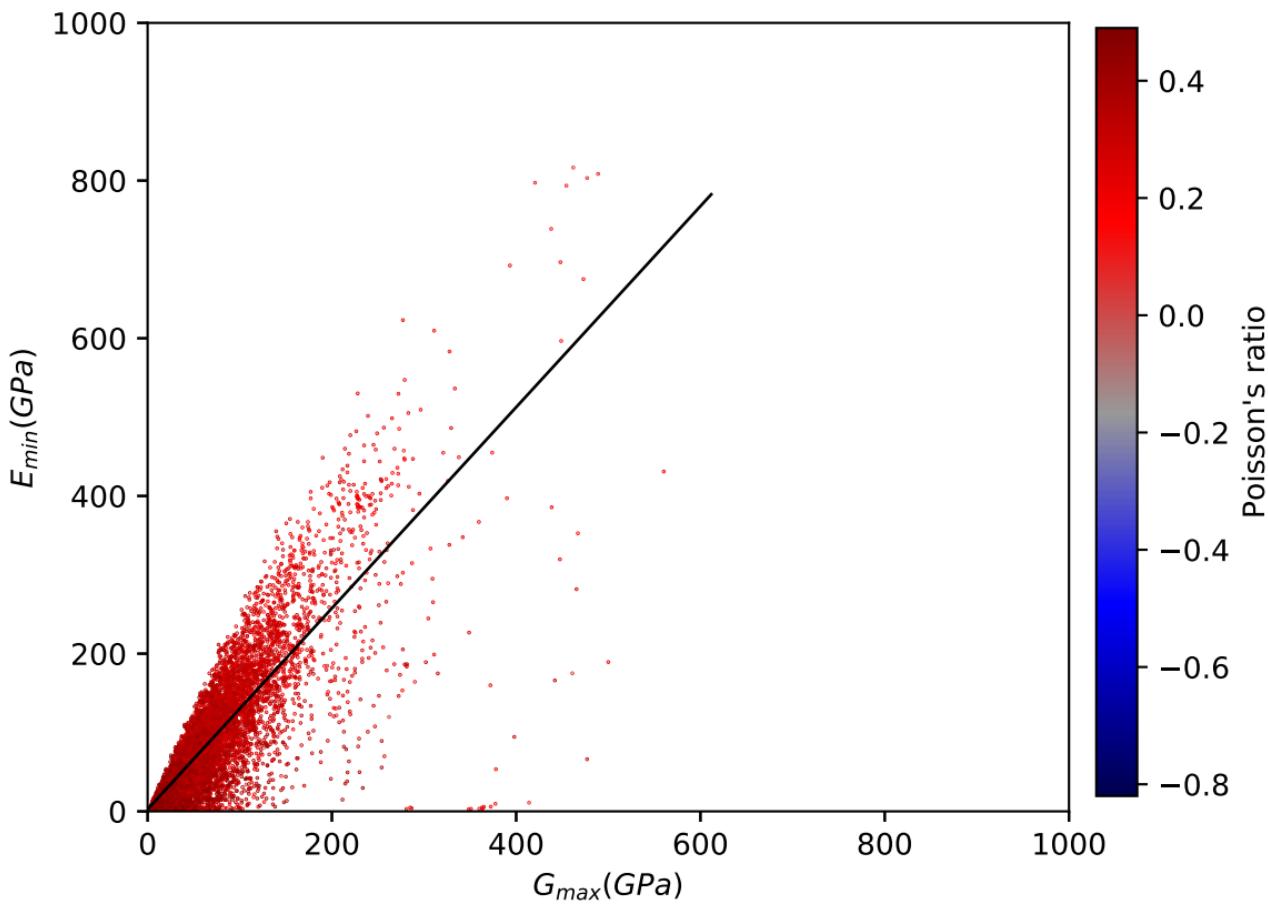


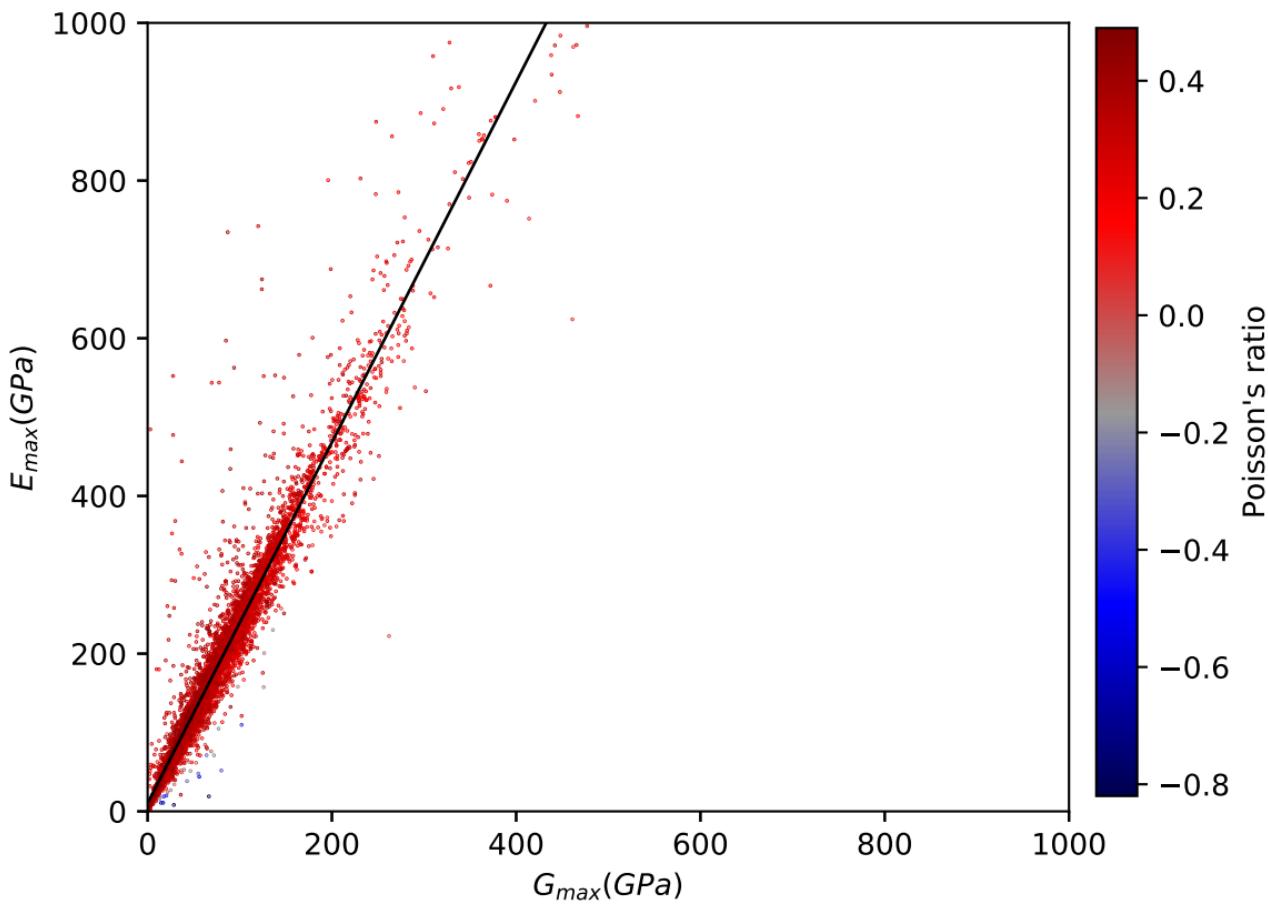


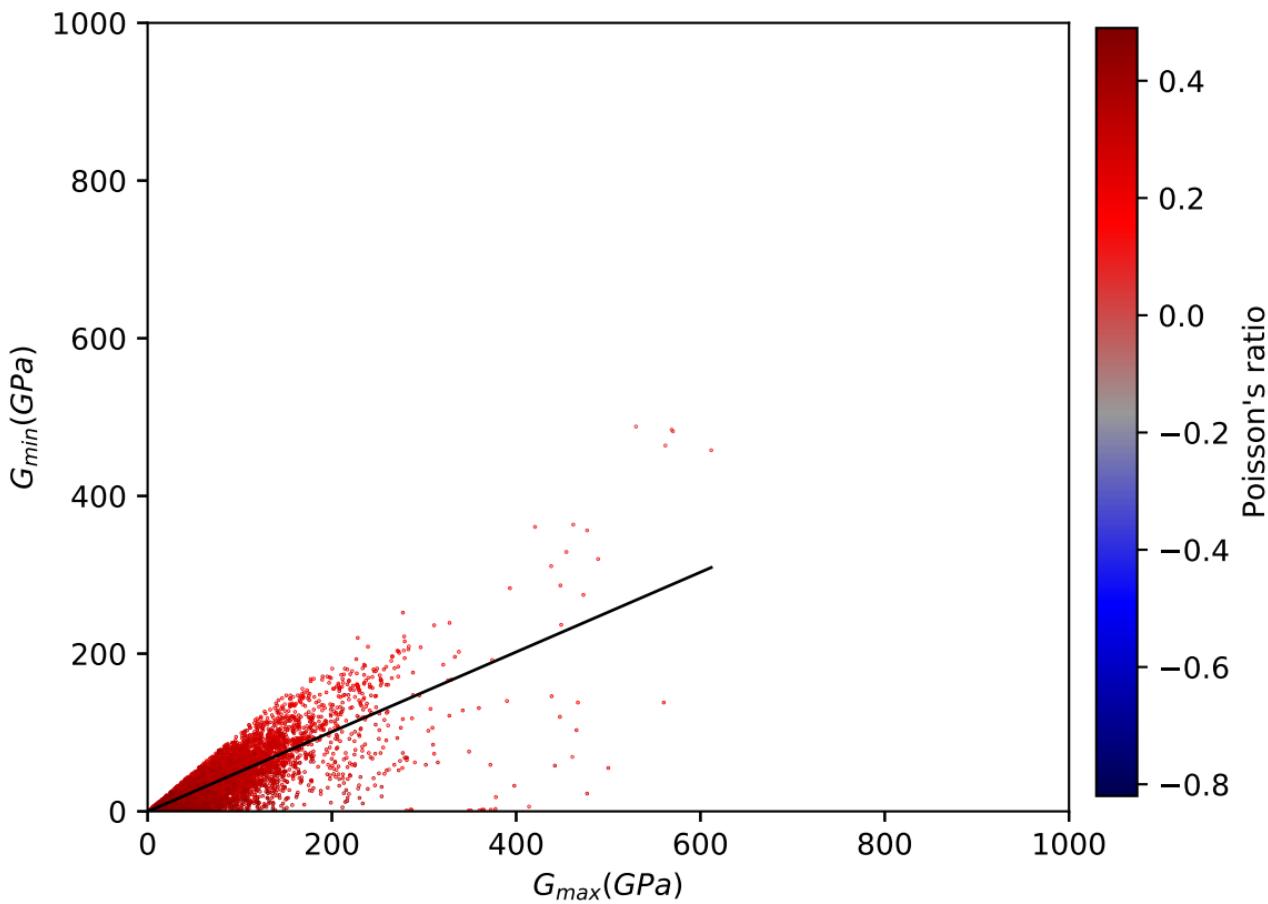


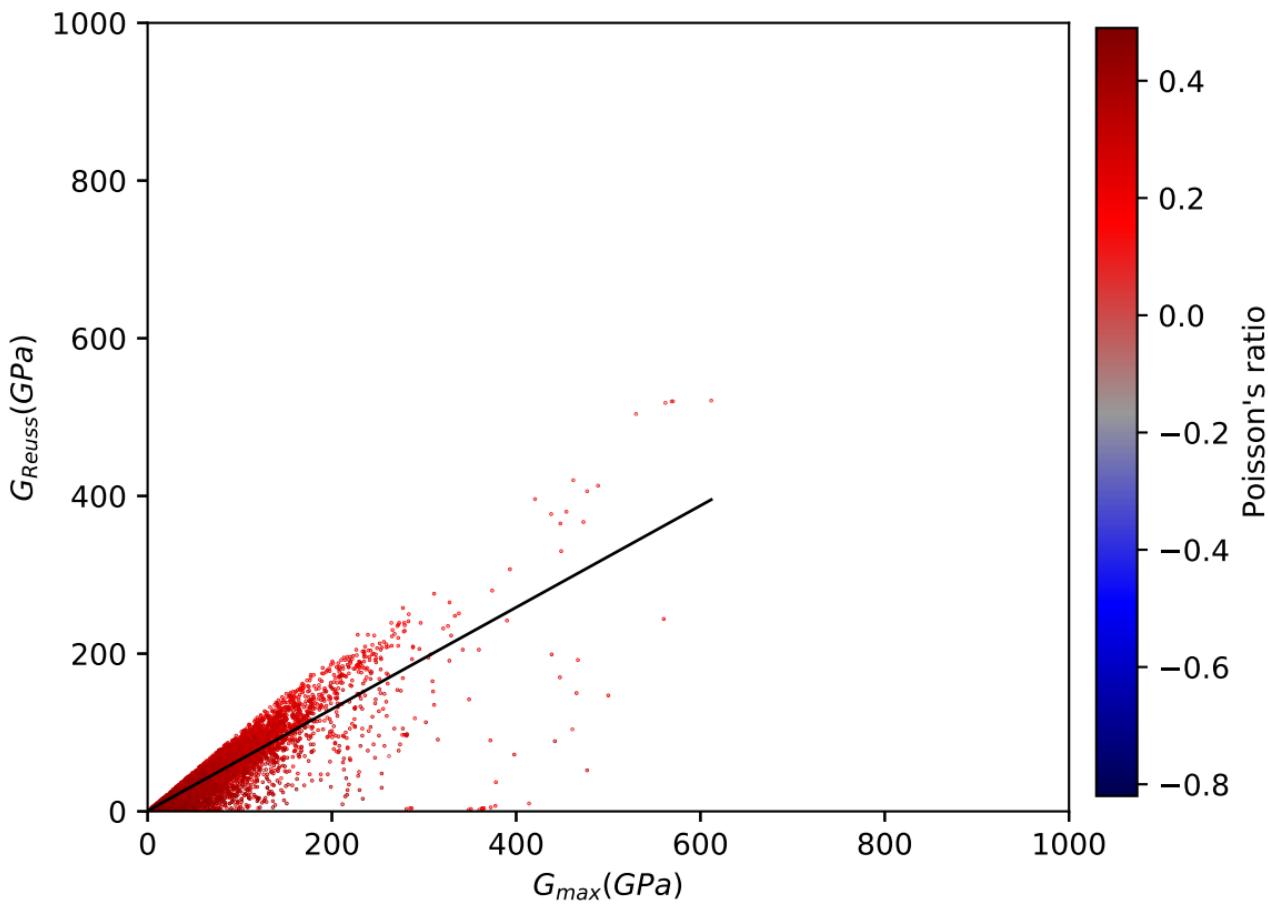


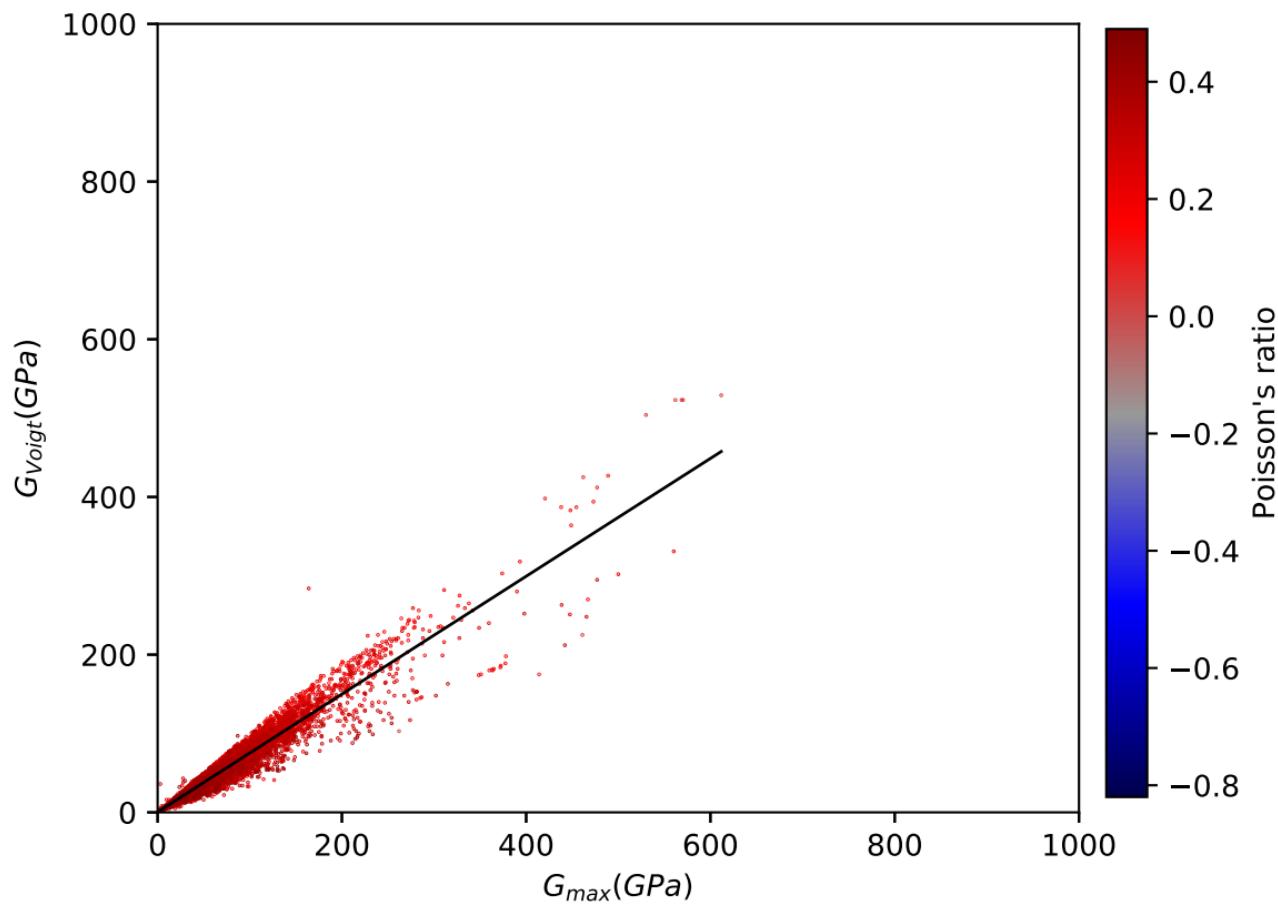


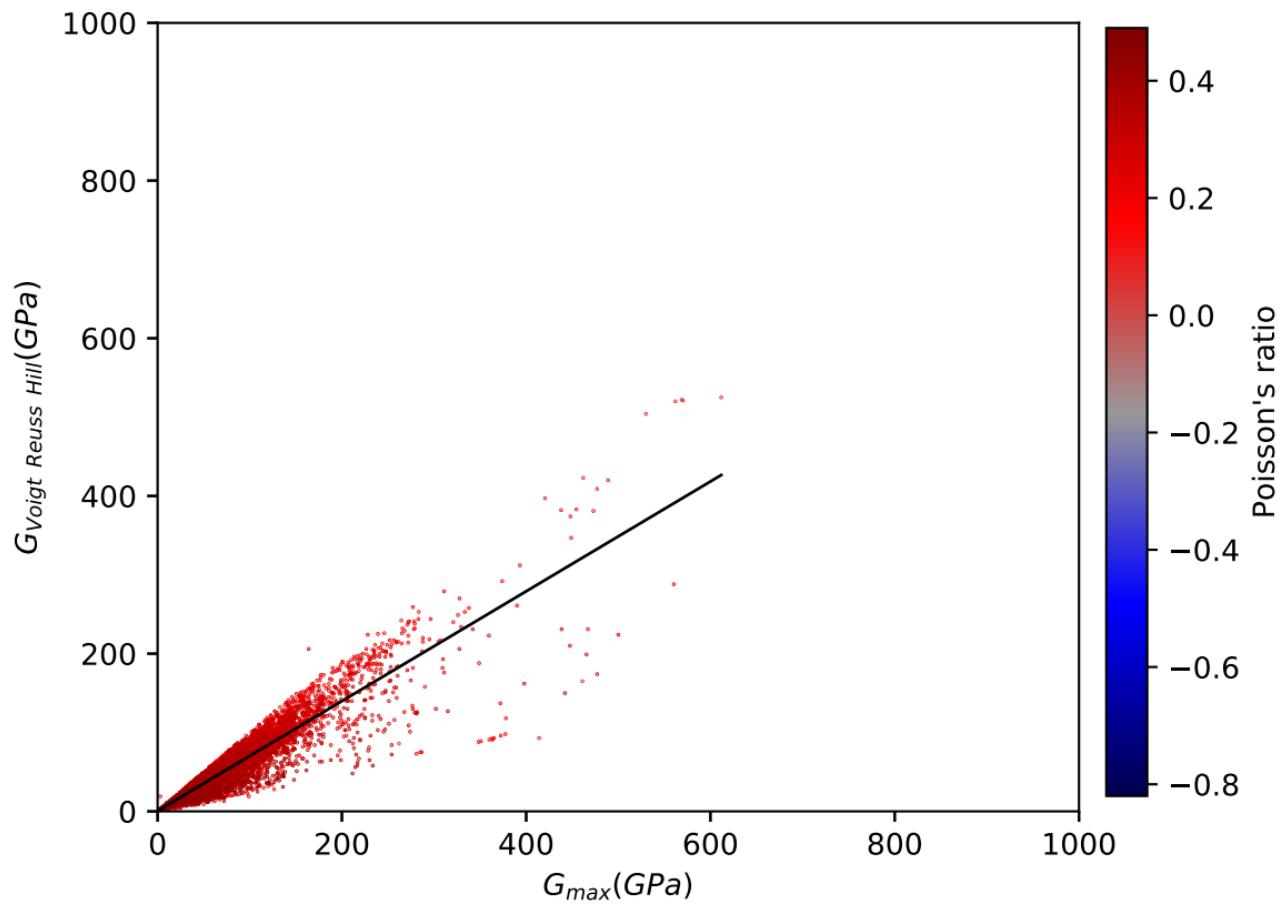


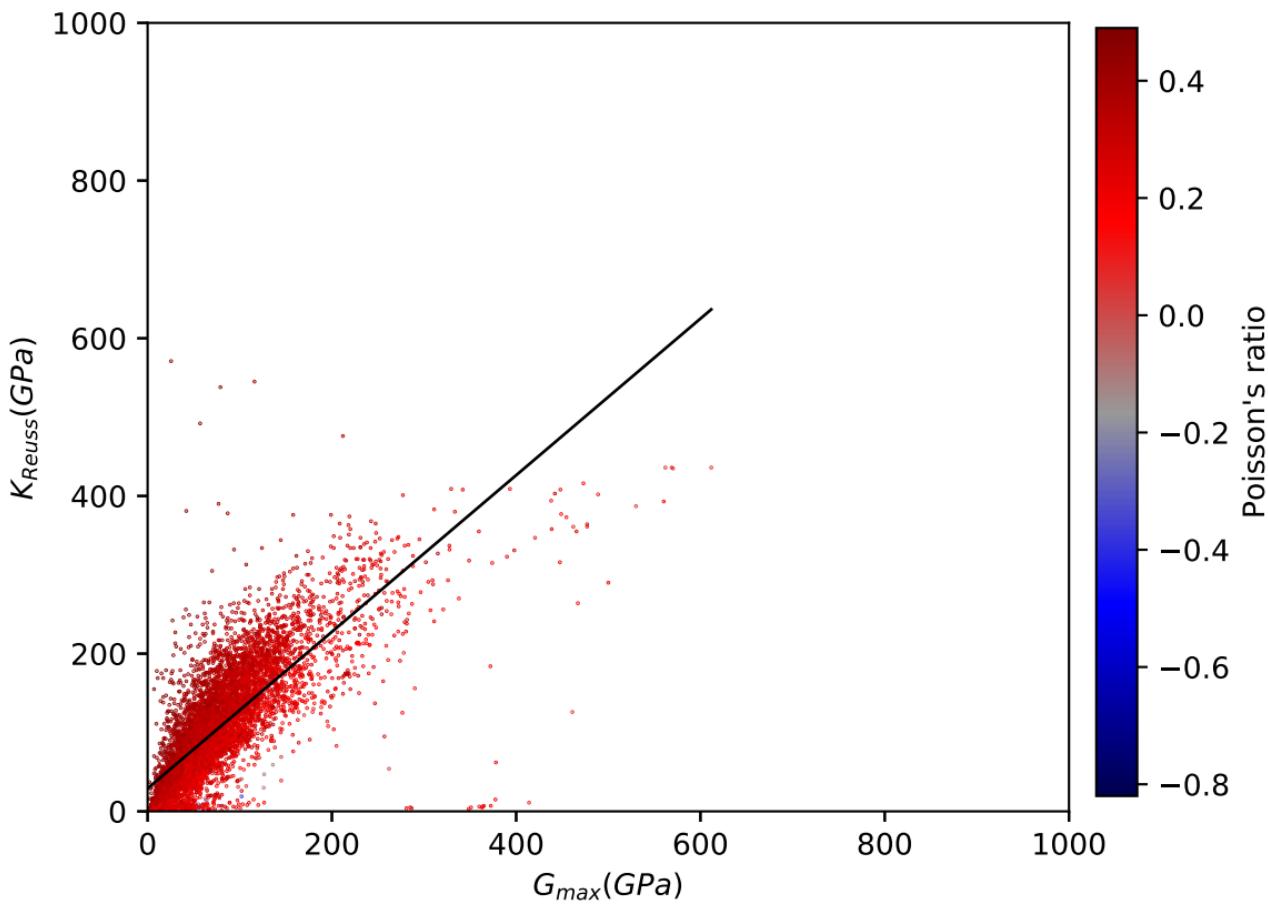


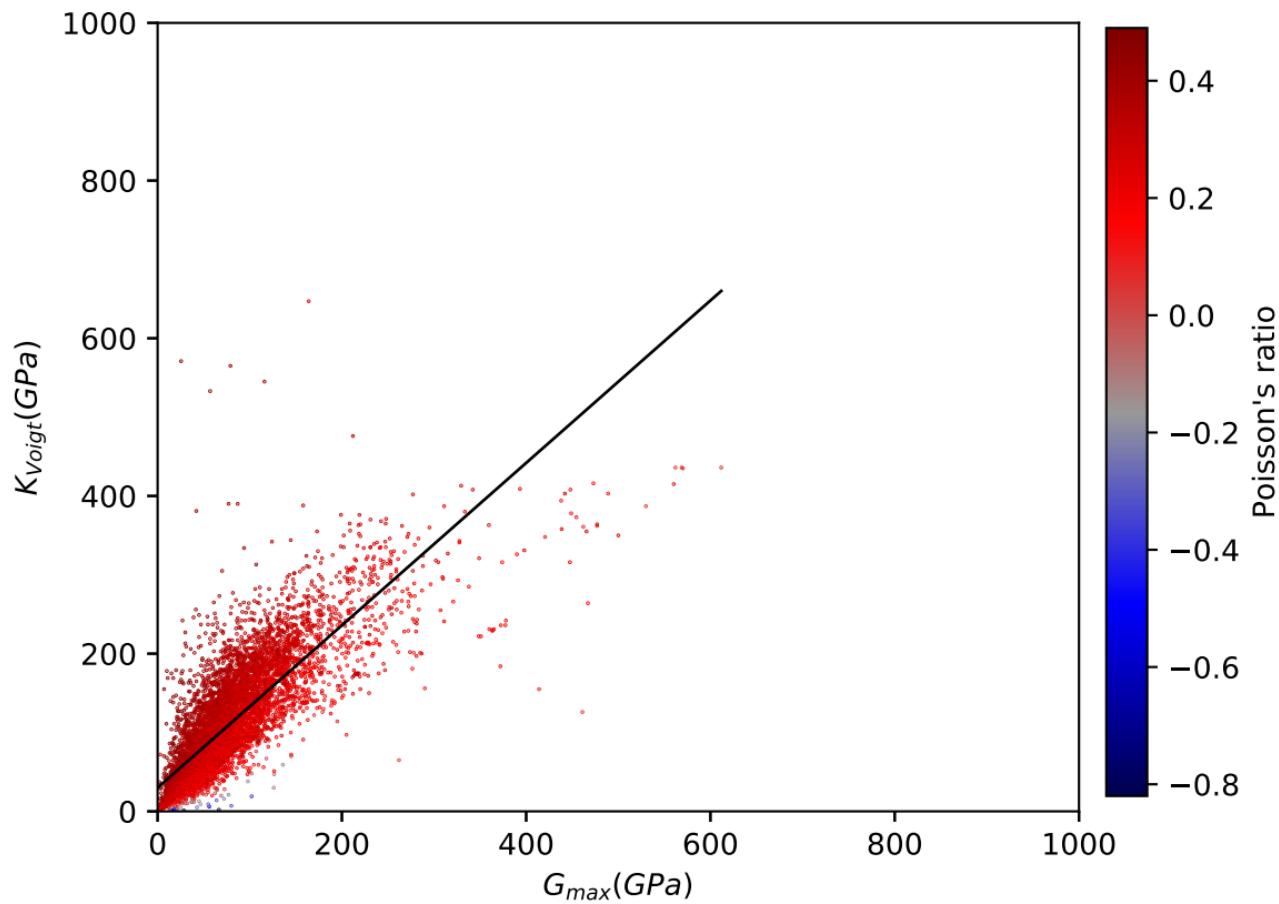


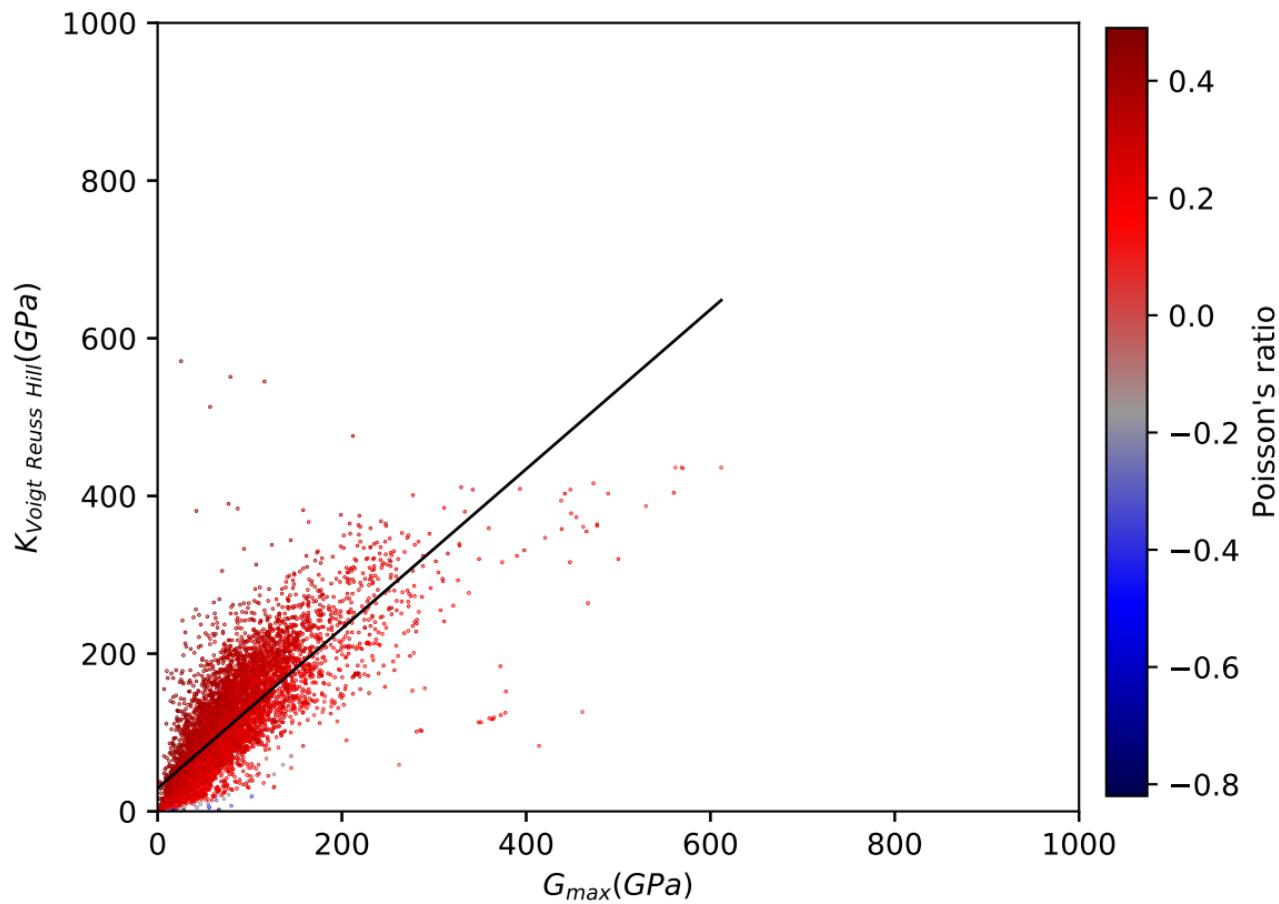


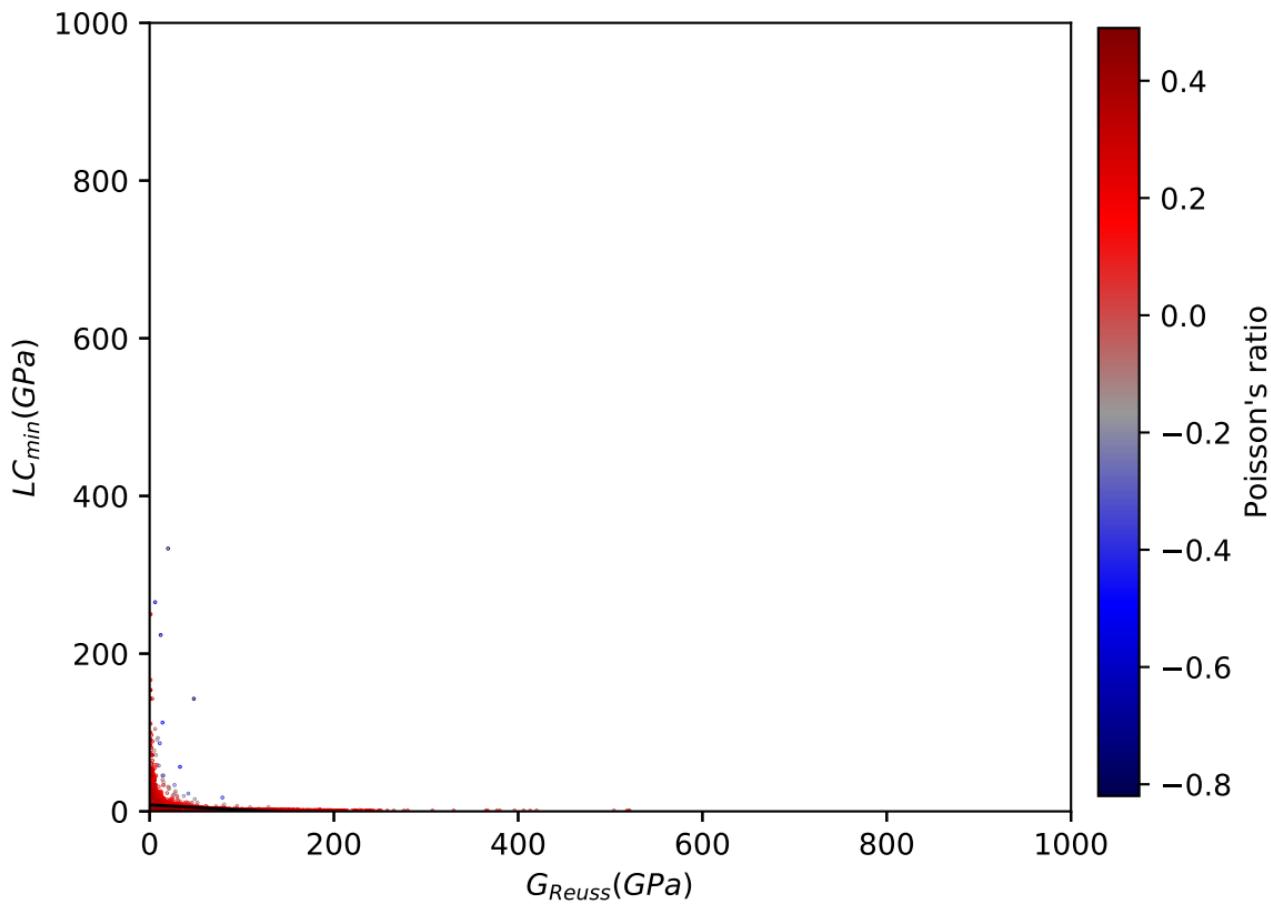


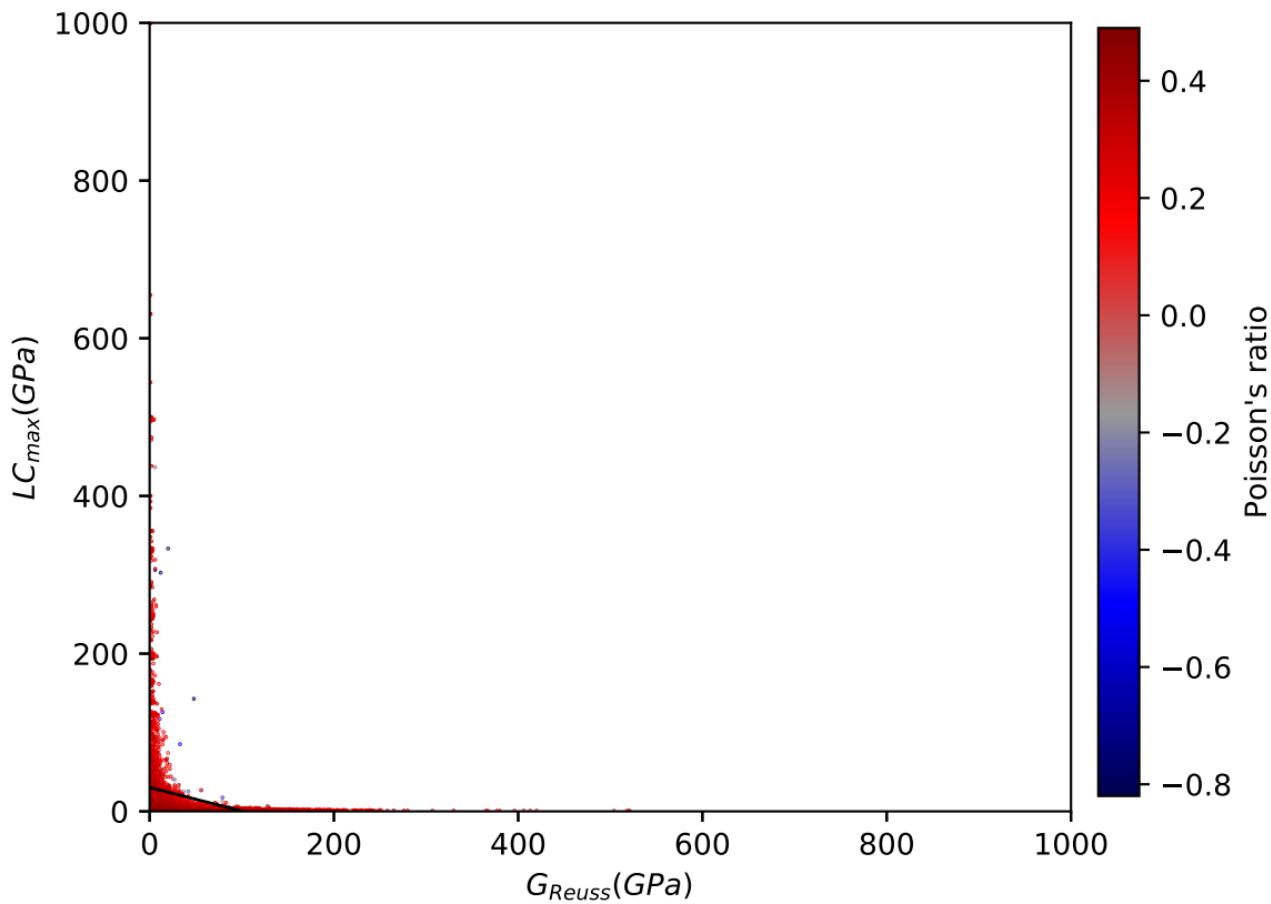


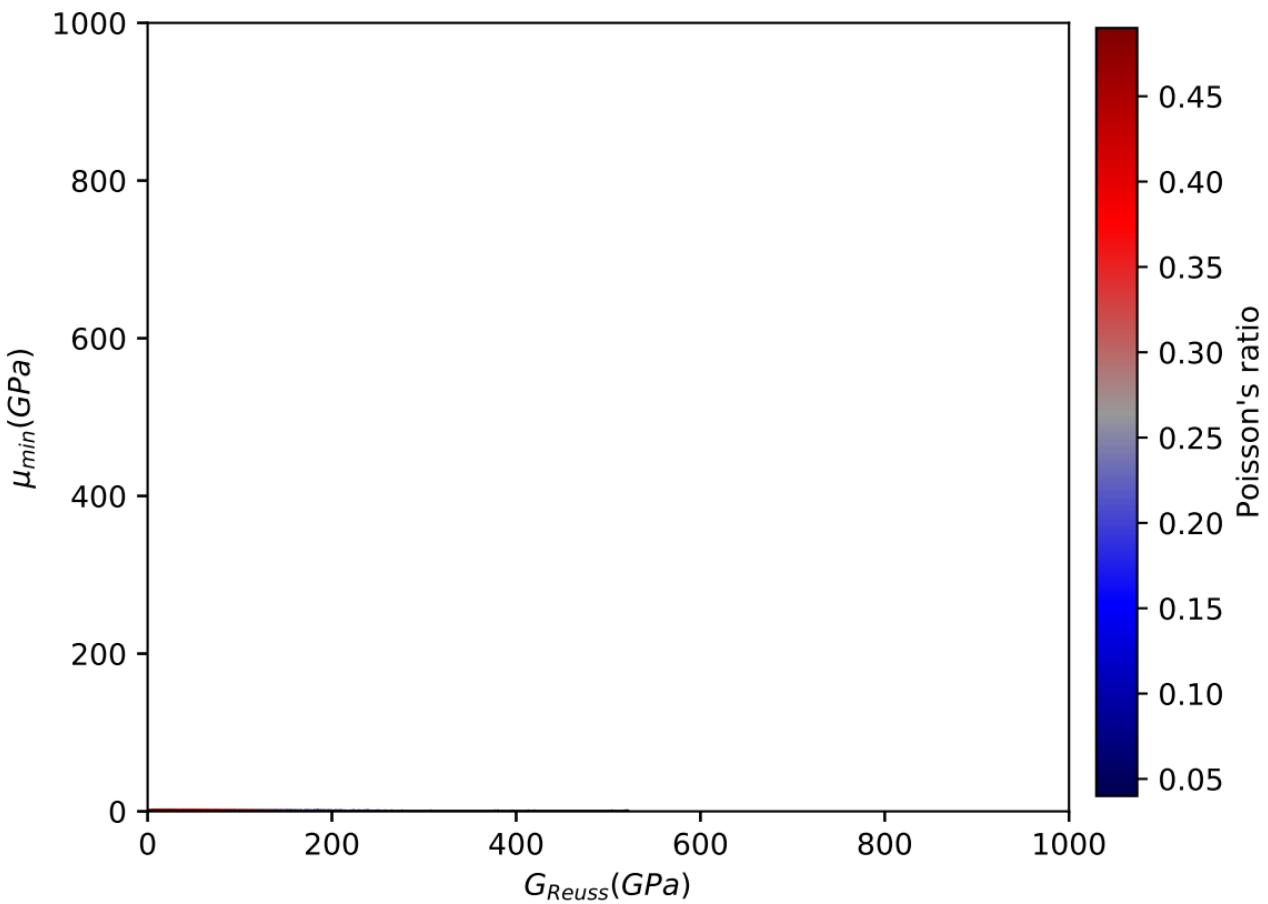


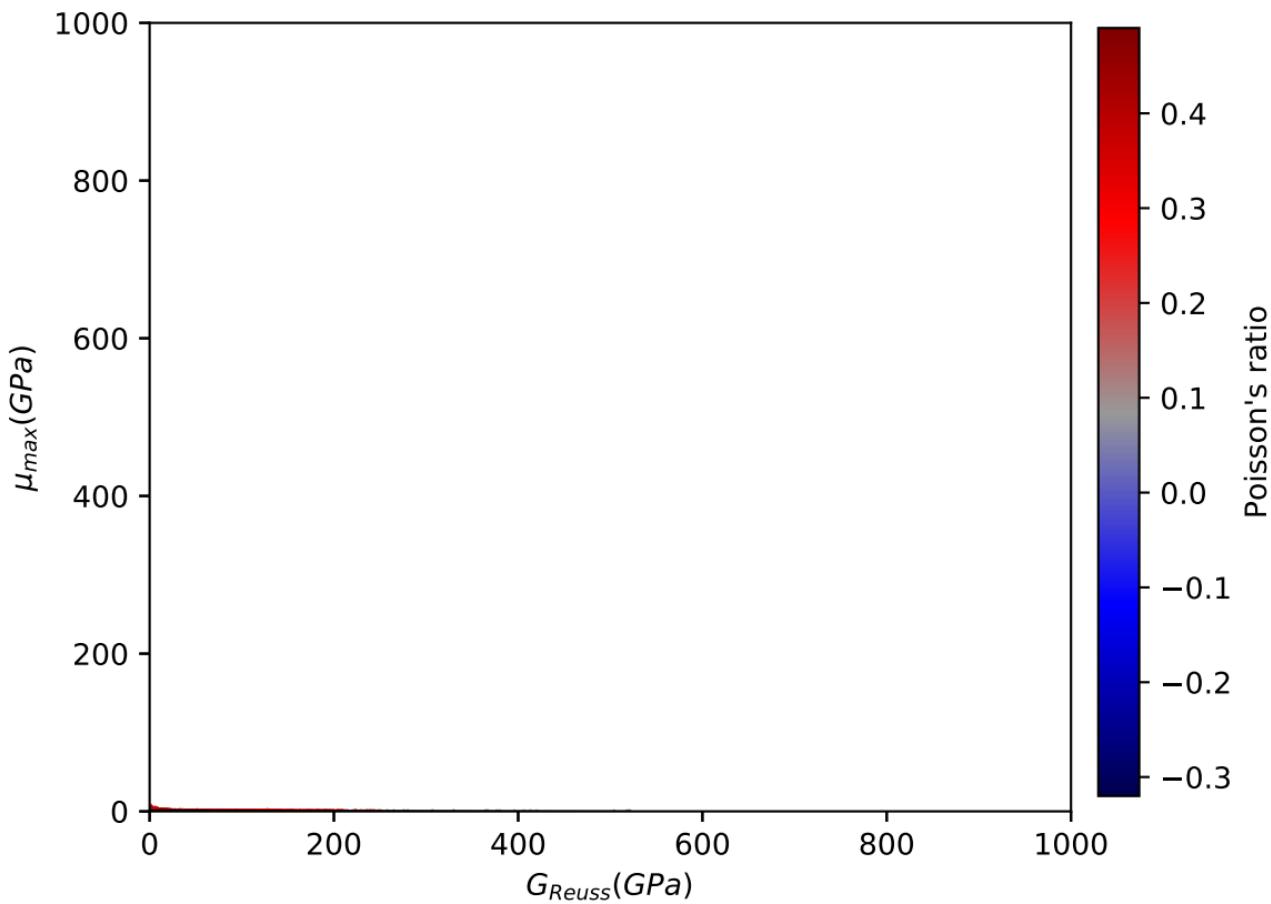


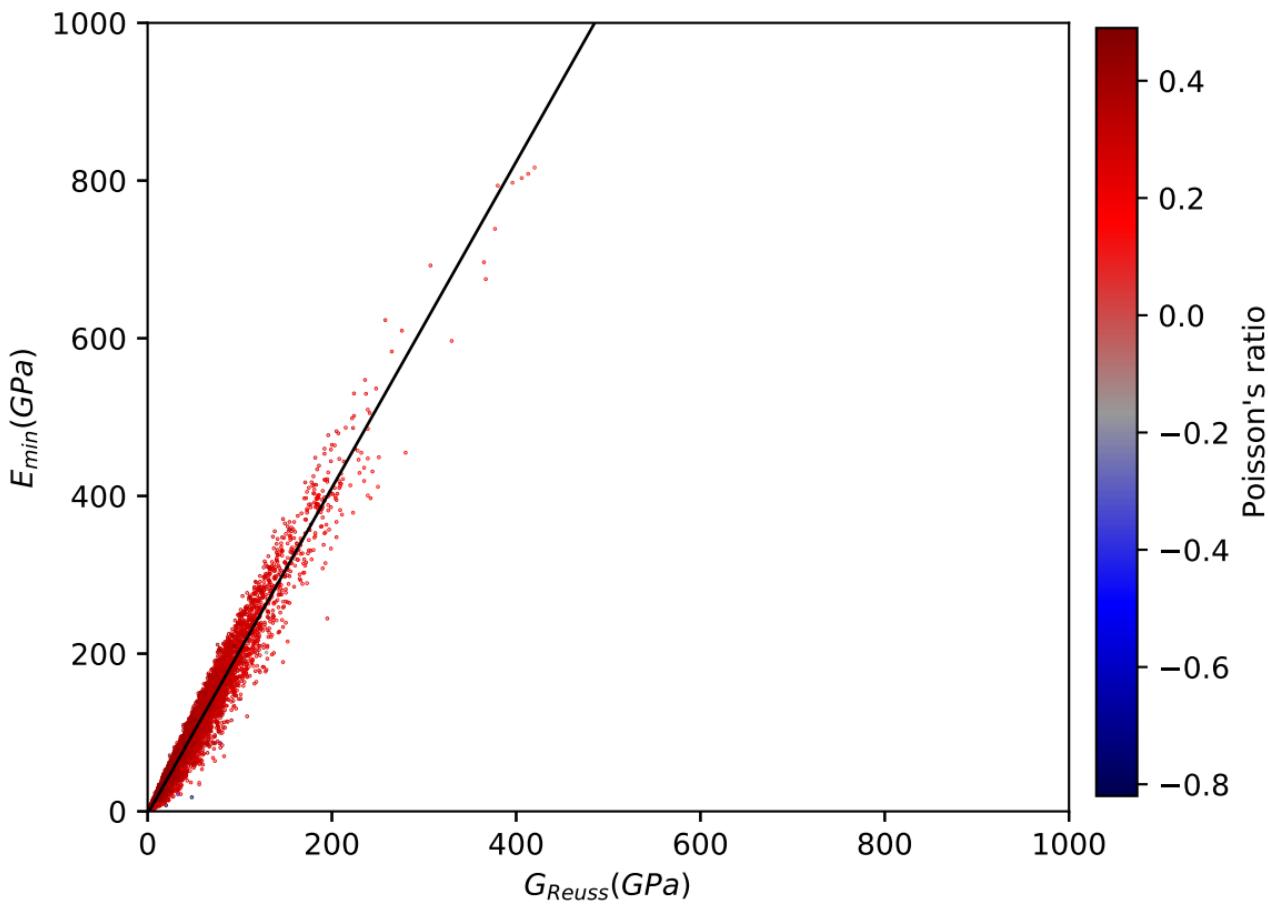


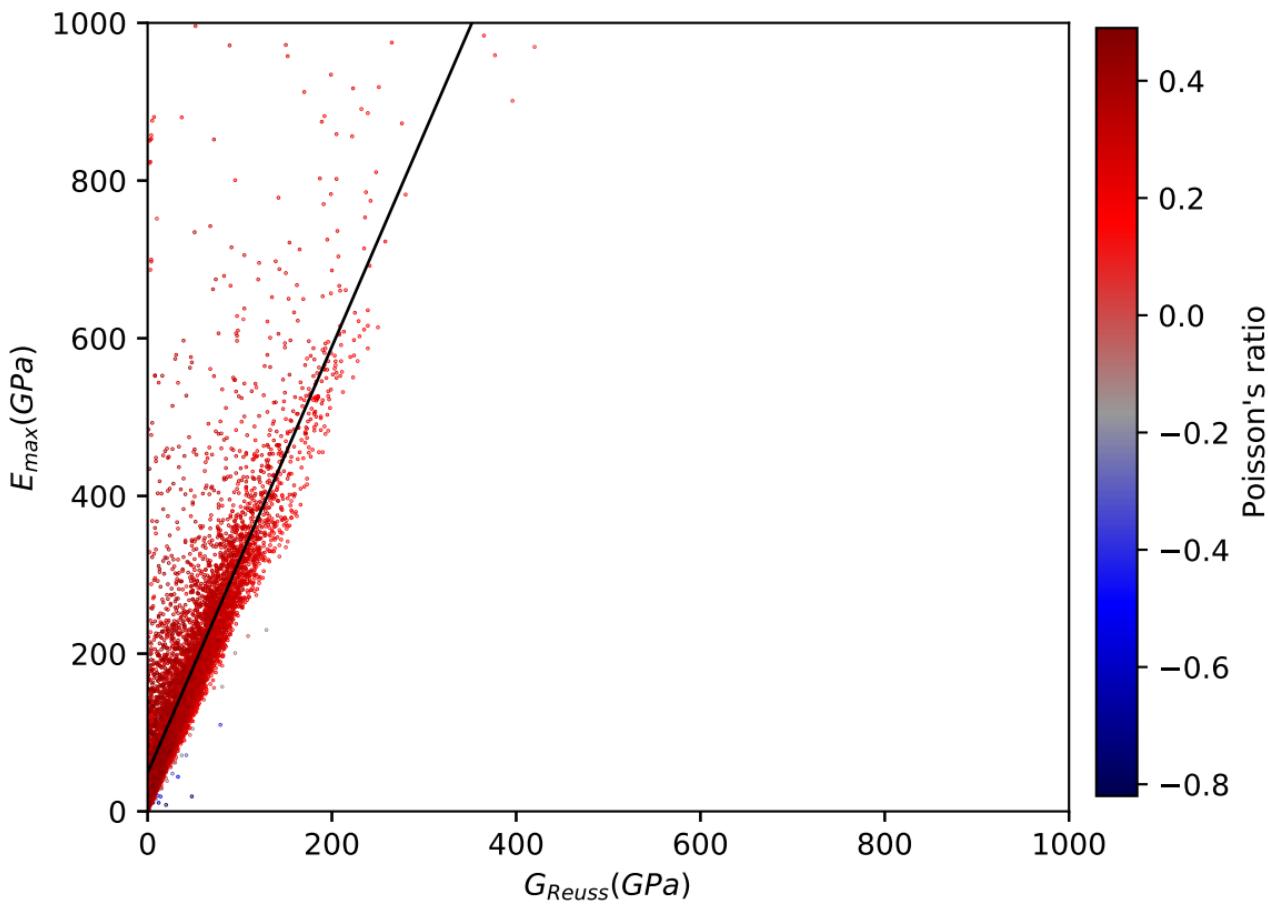


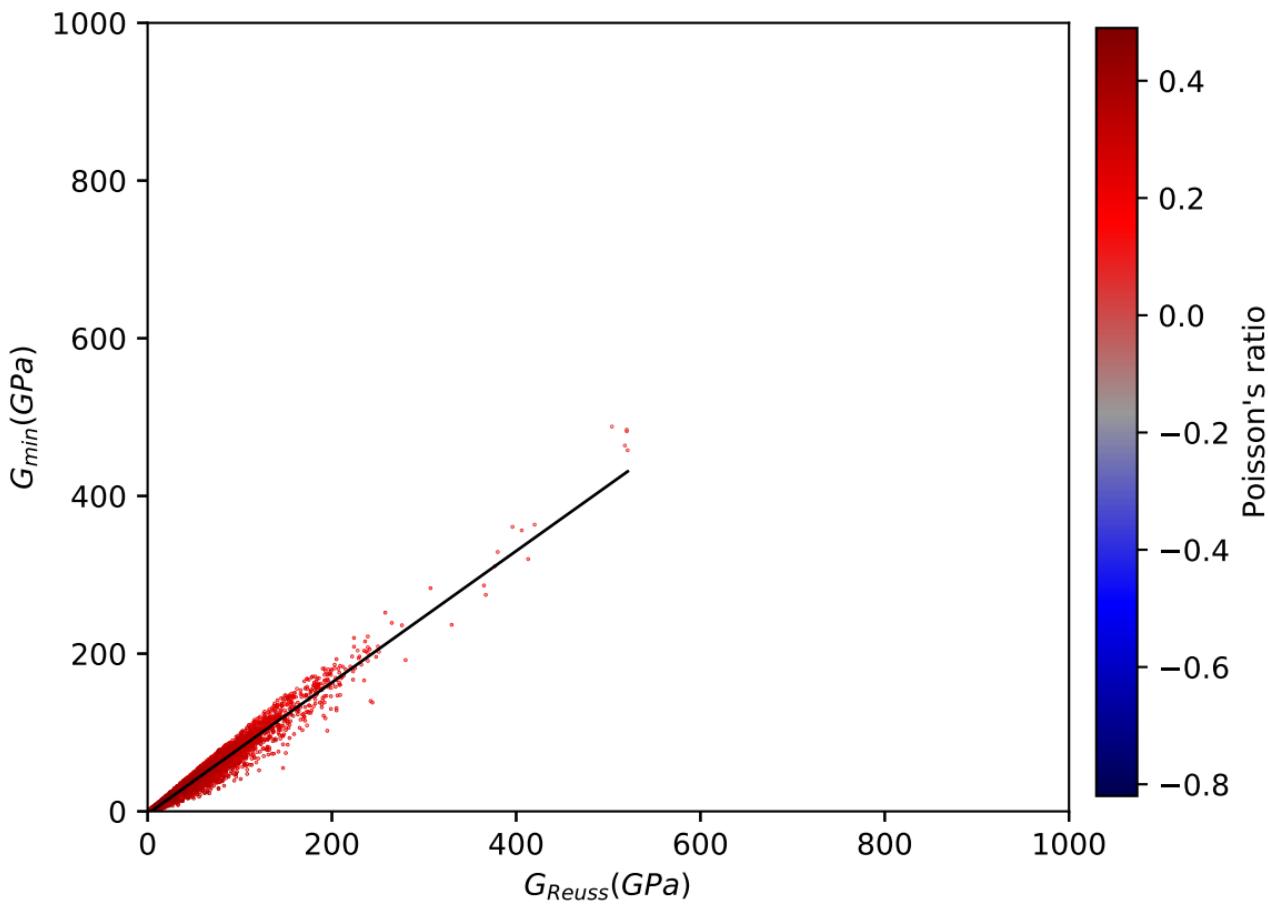


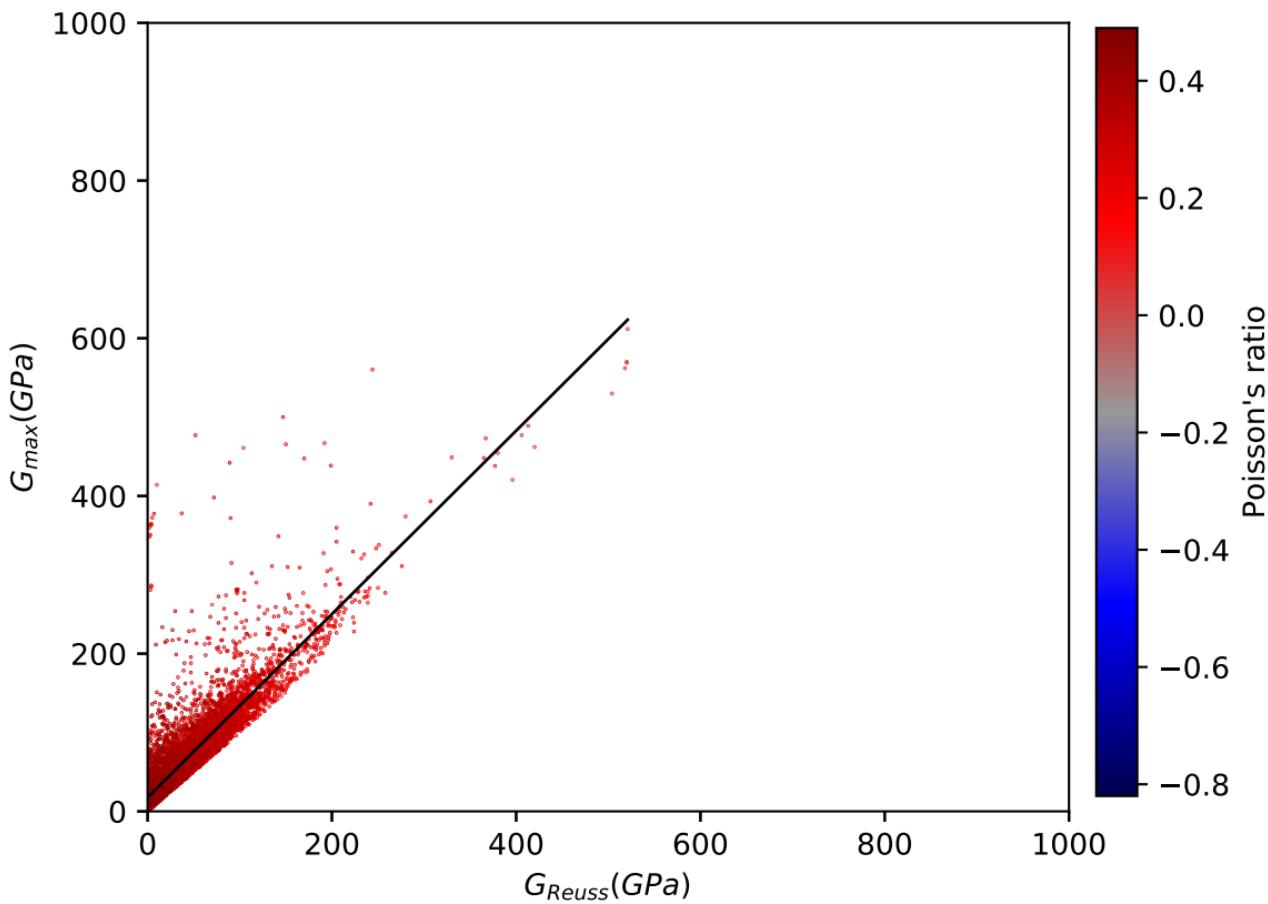












$G_{Vogt}(GPa)$

1000

800

600

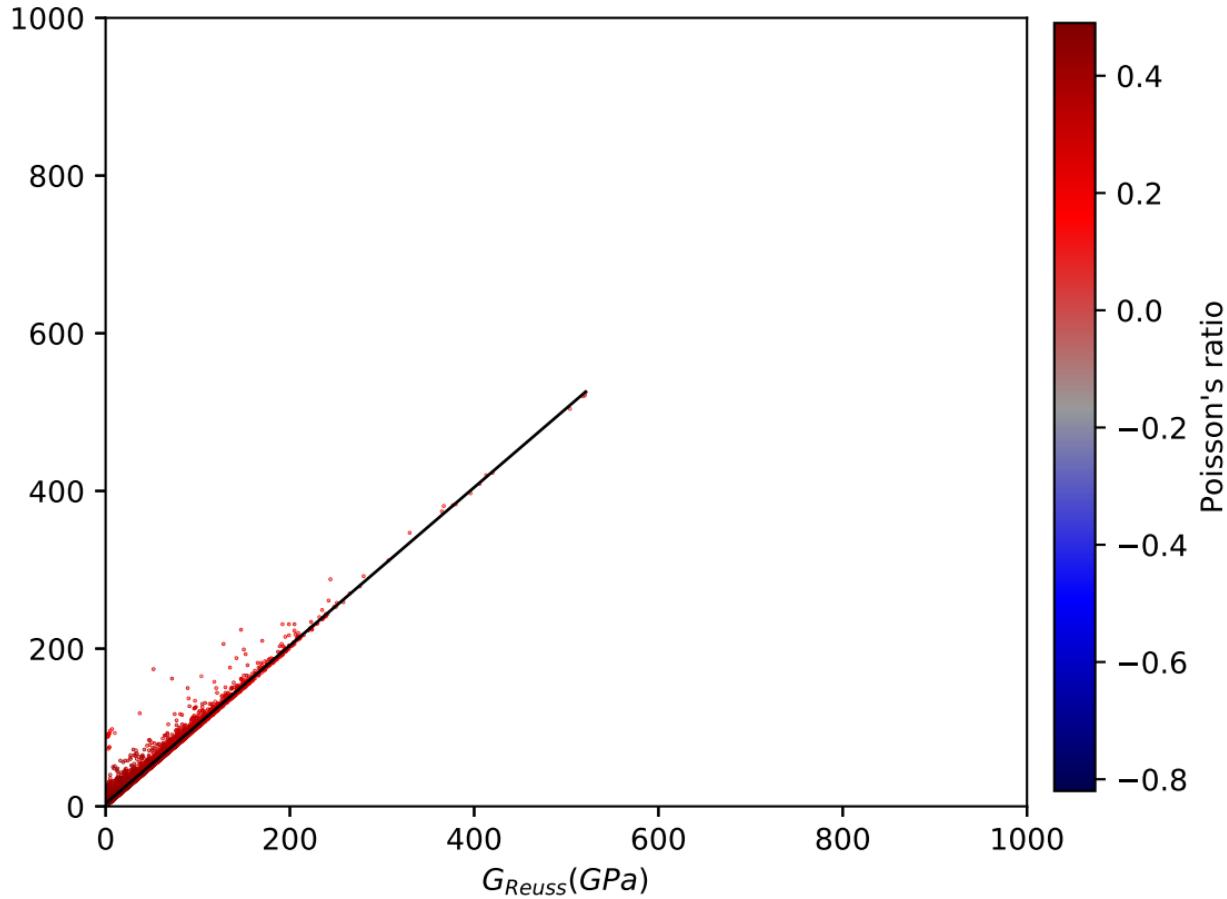
400

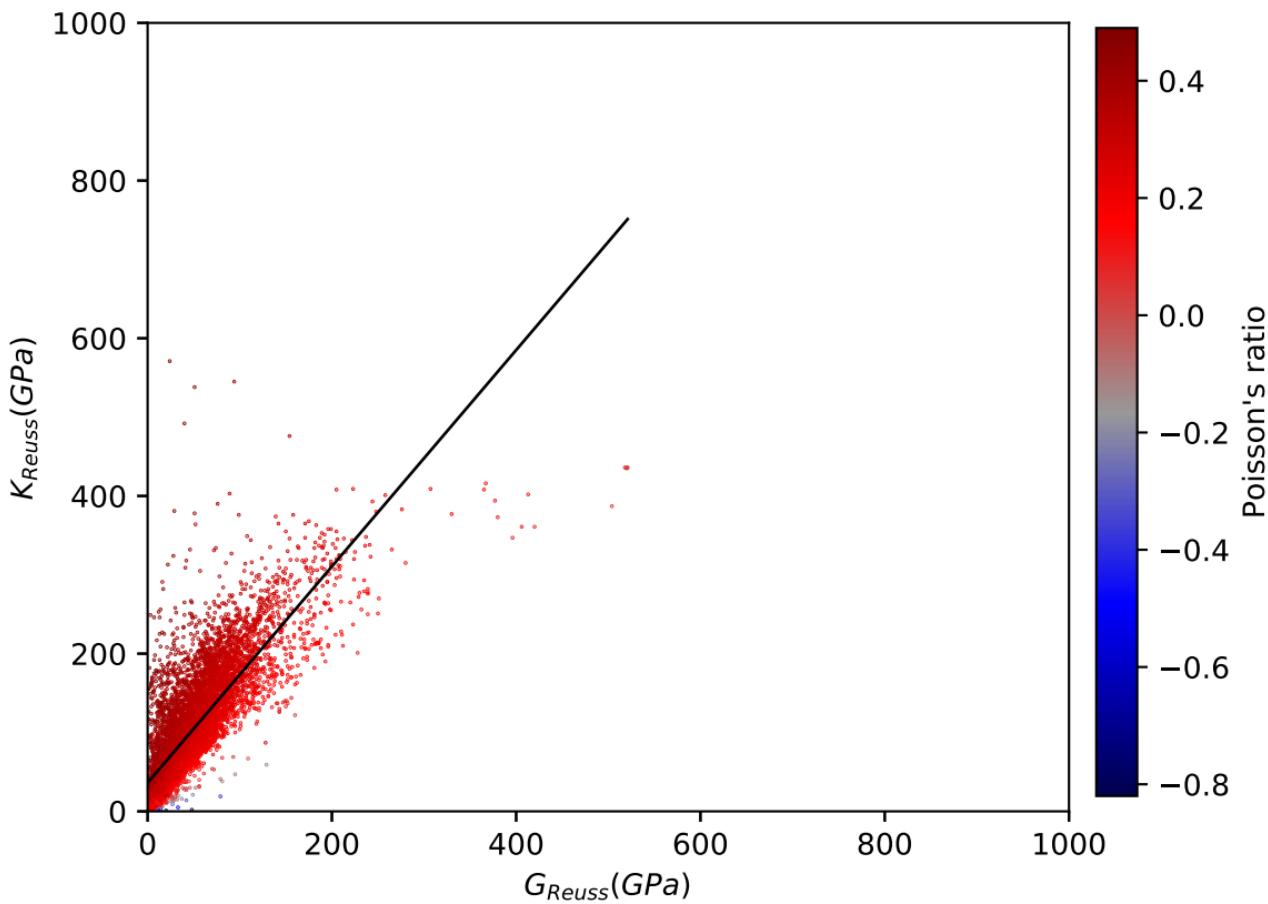
200

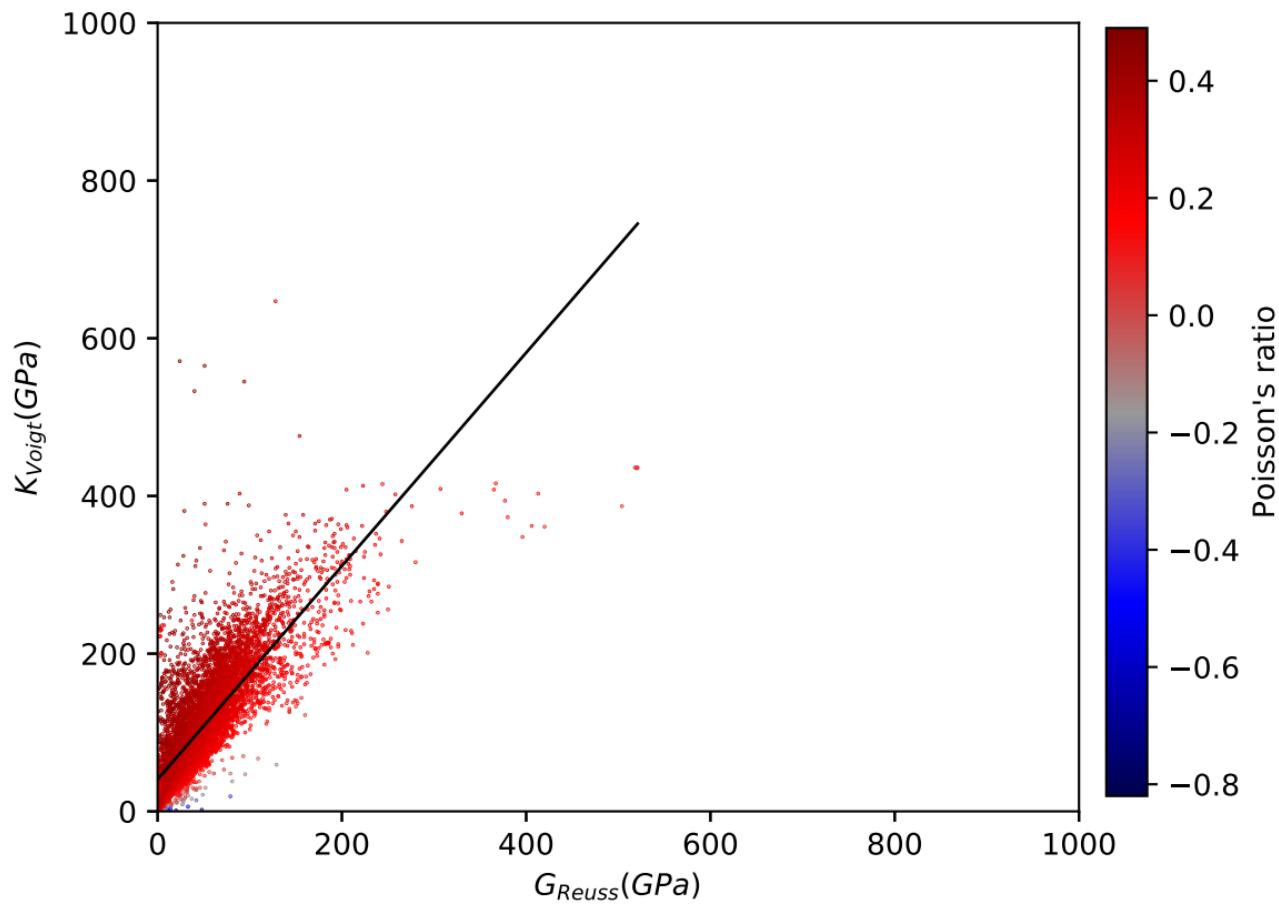
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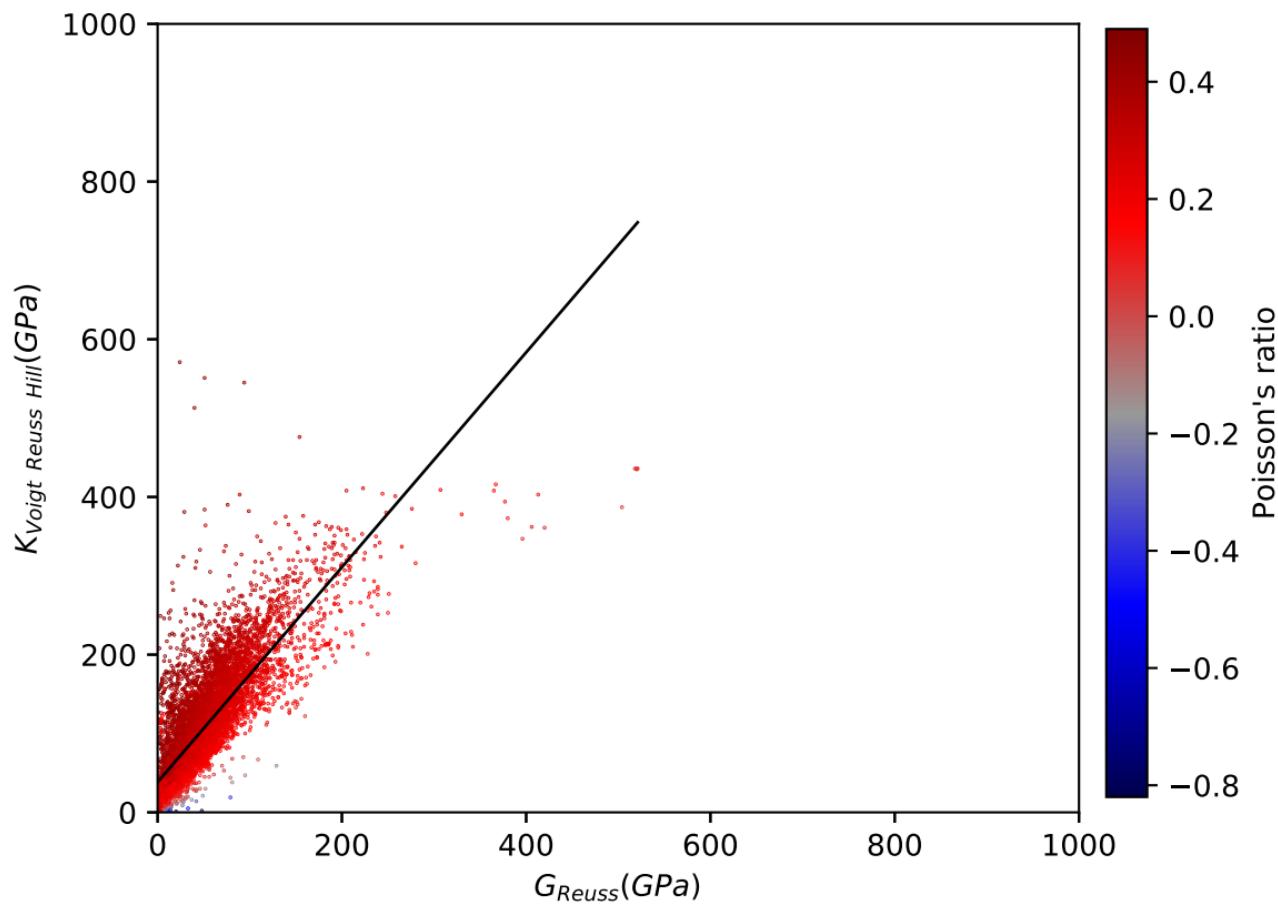
 $G_{Reuss}(GPa)$ 

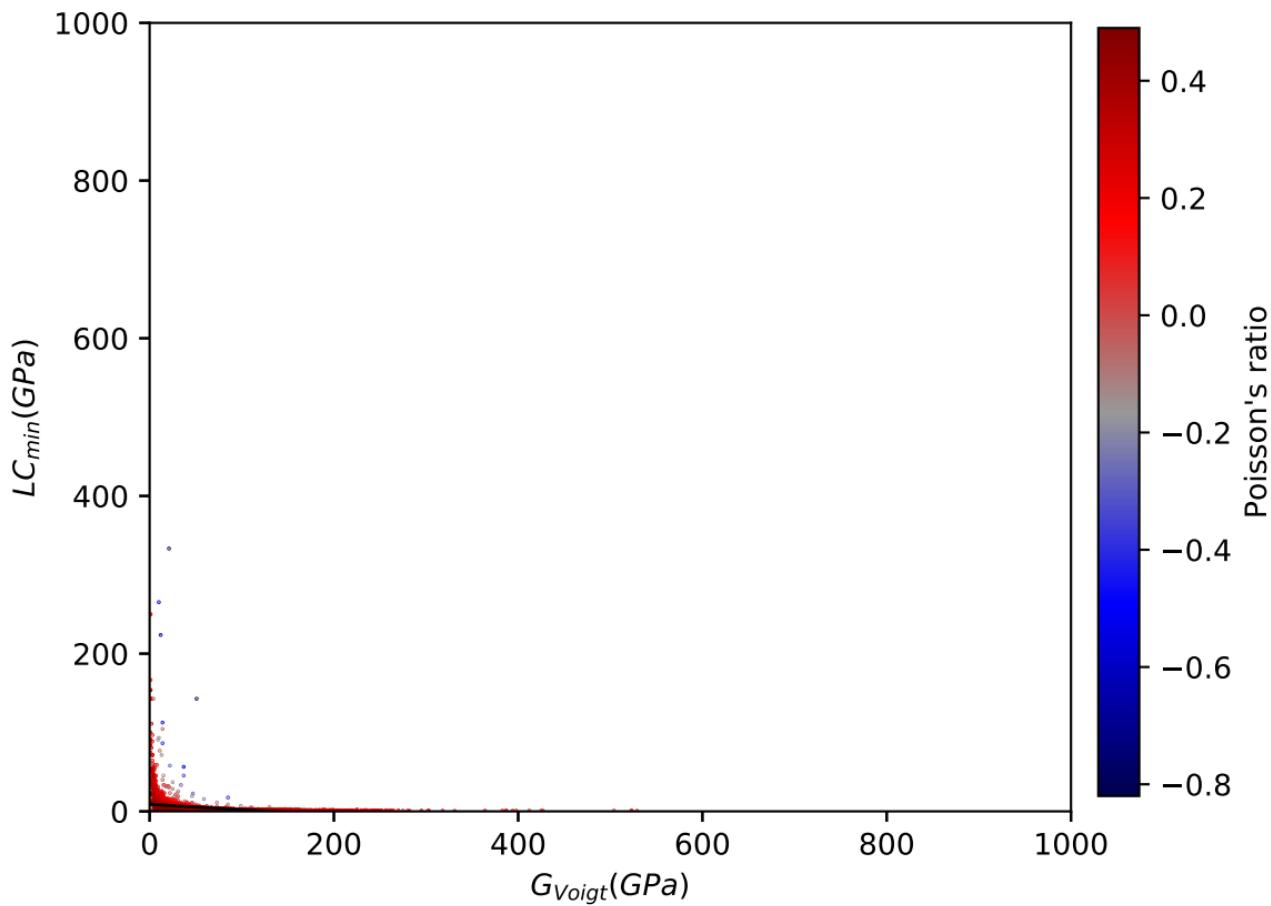
Poisson's ratio

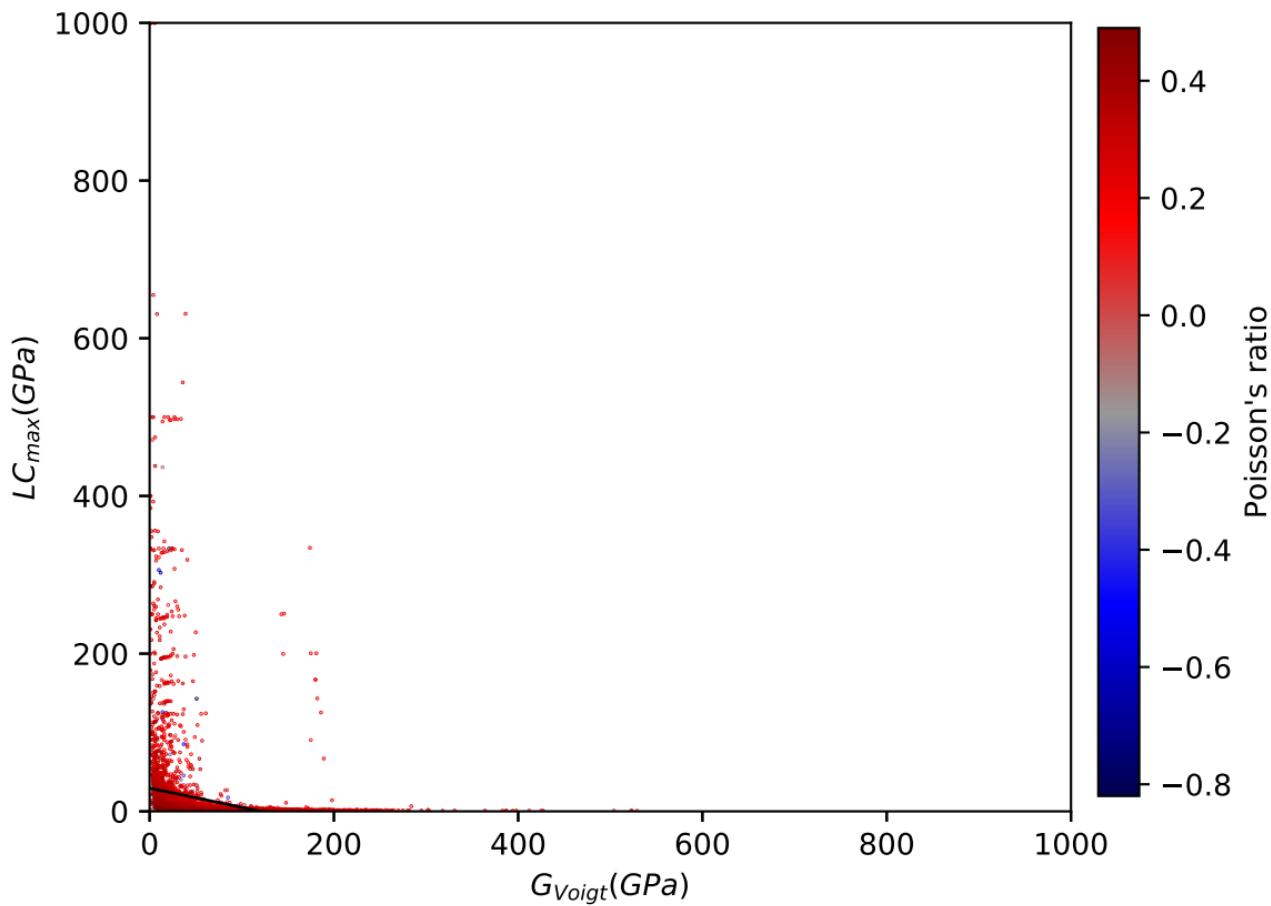
$G_{\text{Voigt Reuss Hill}}(\text{GPa})$ 

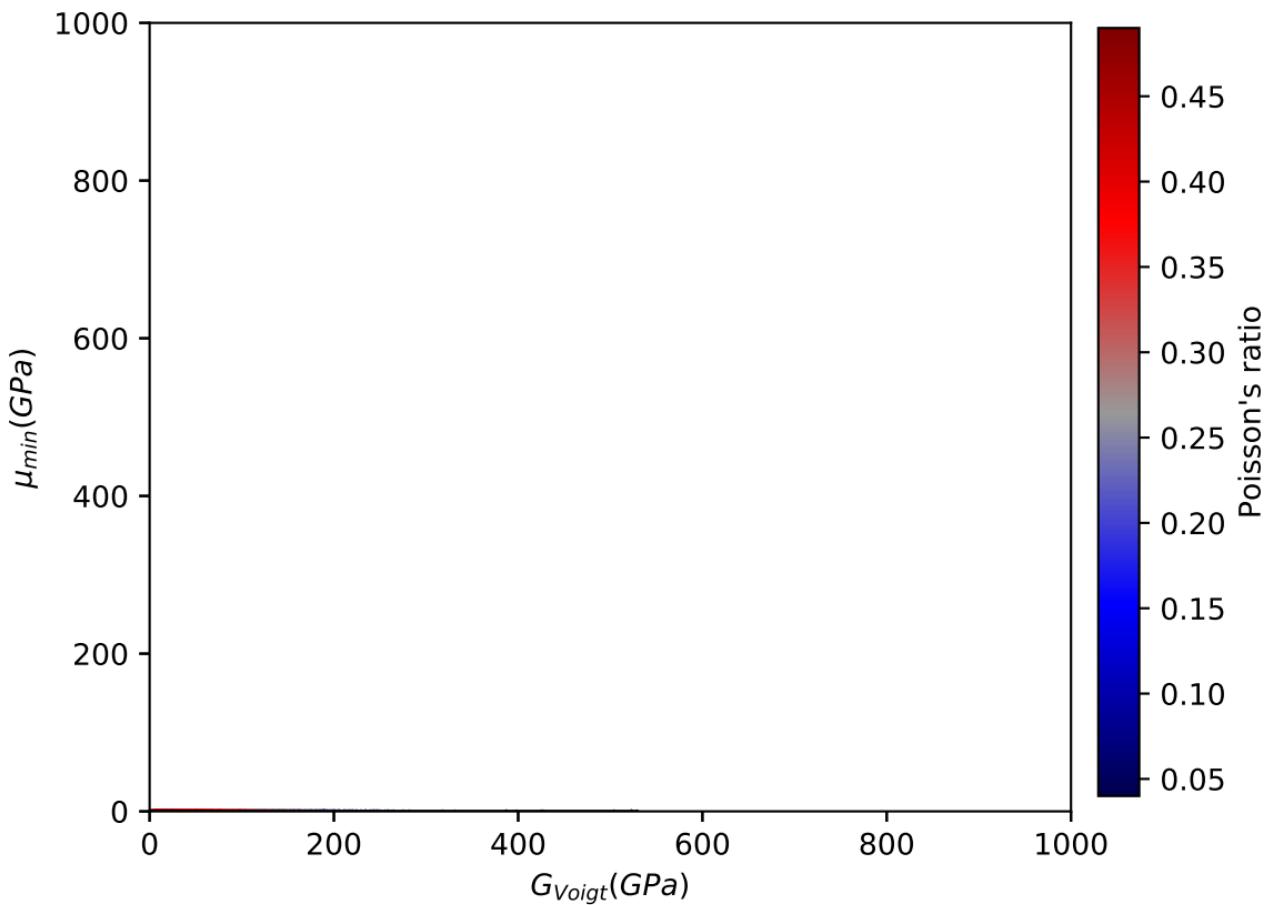


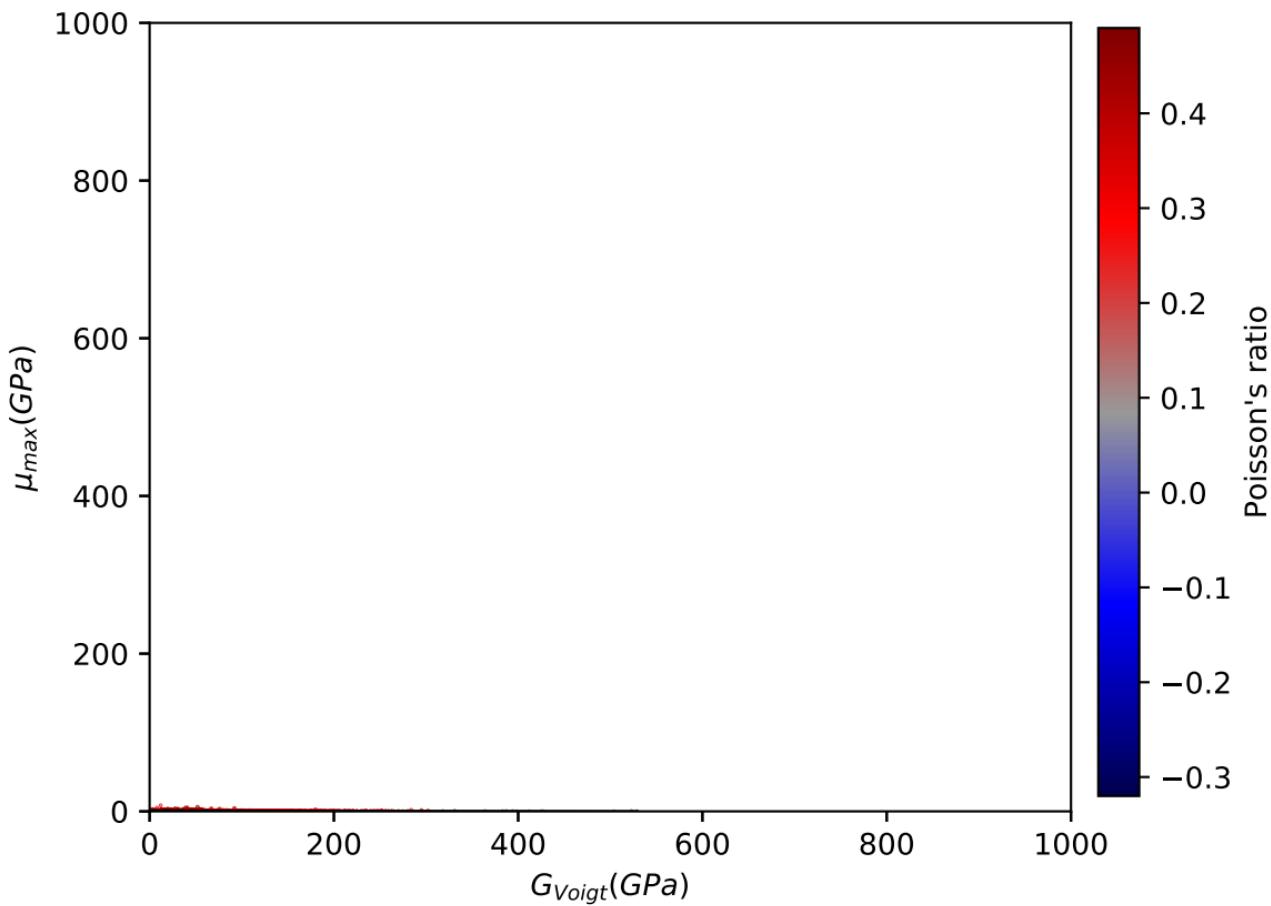


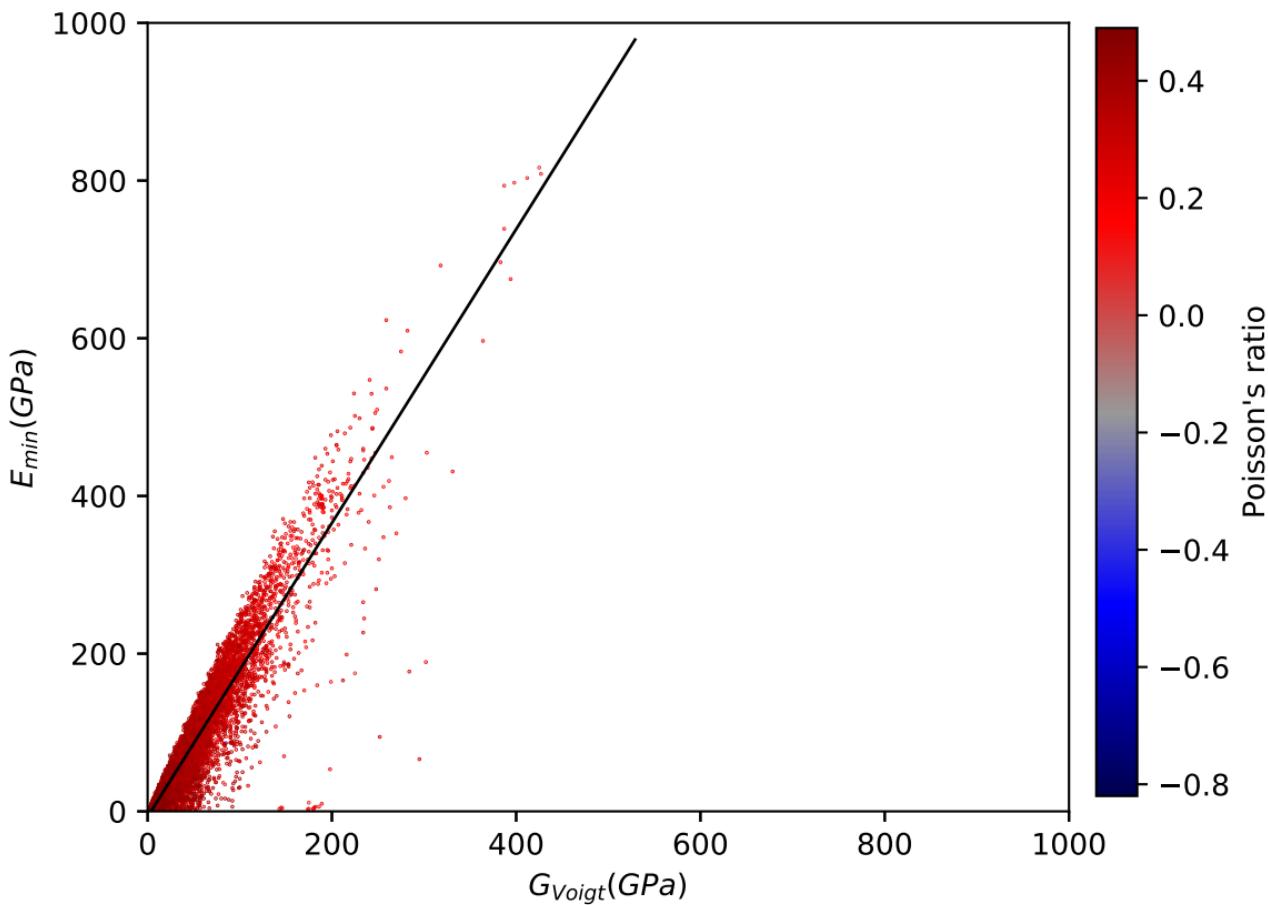


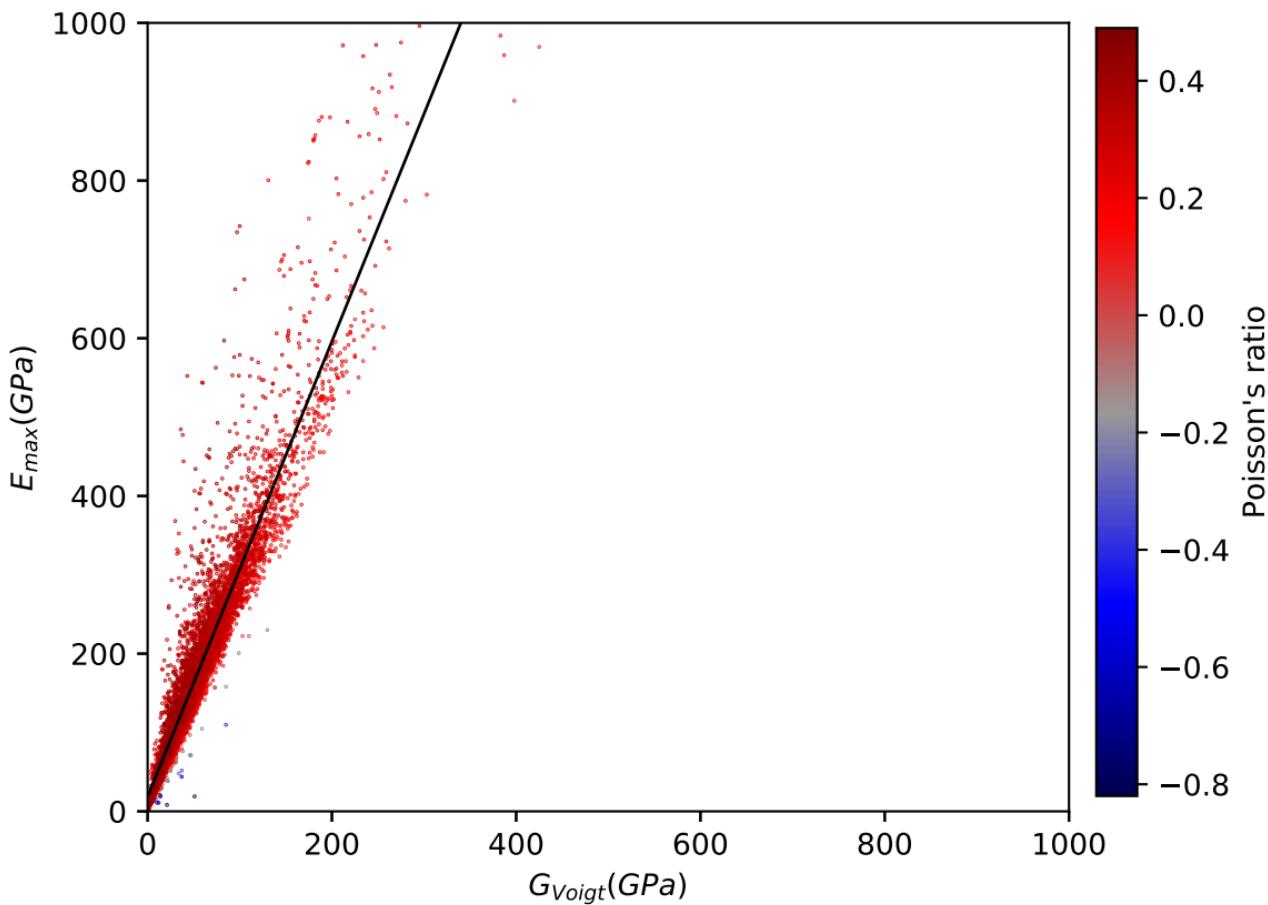


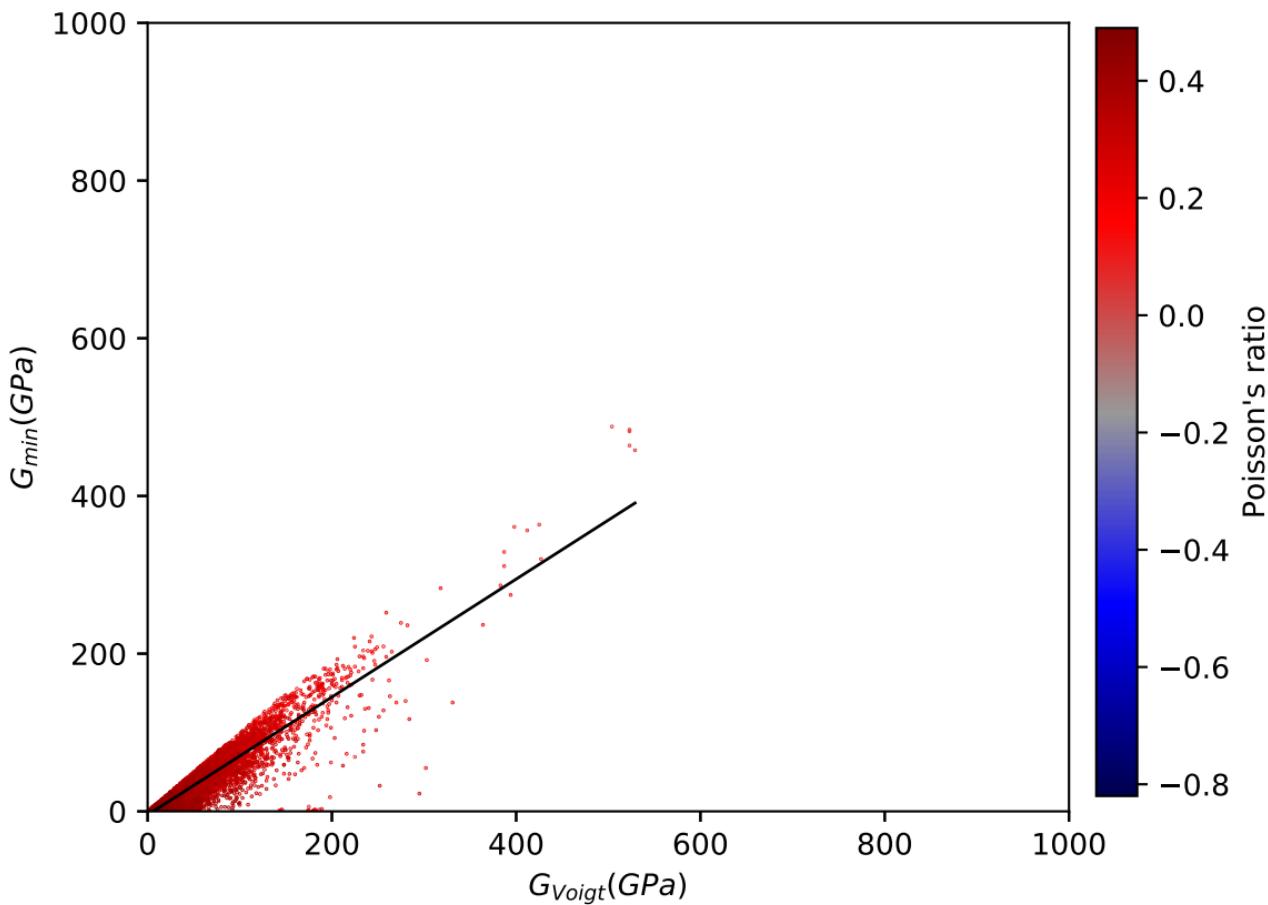


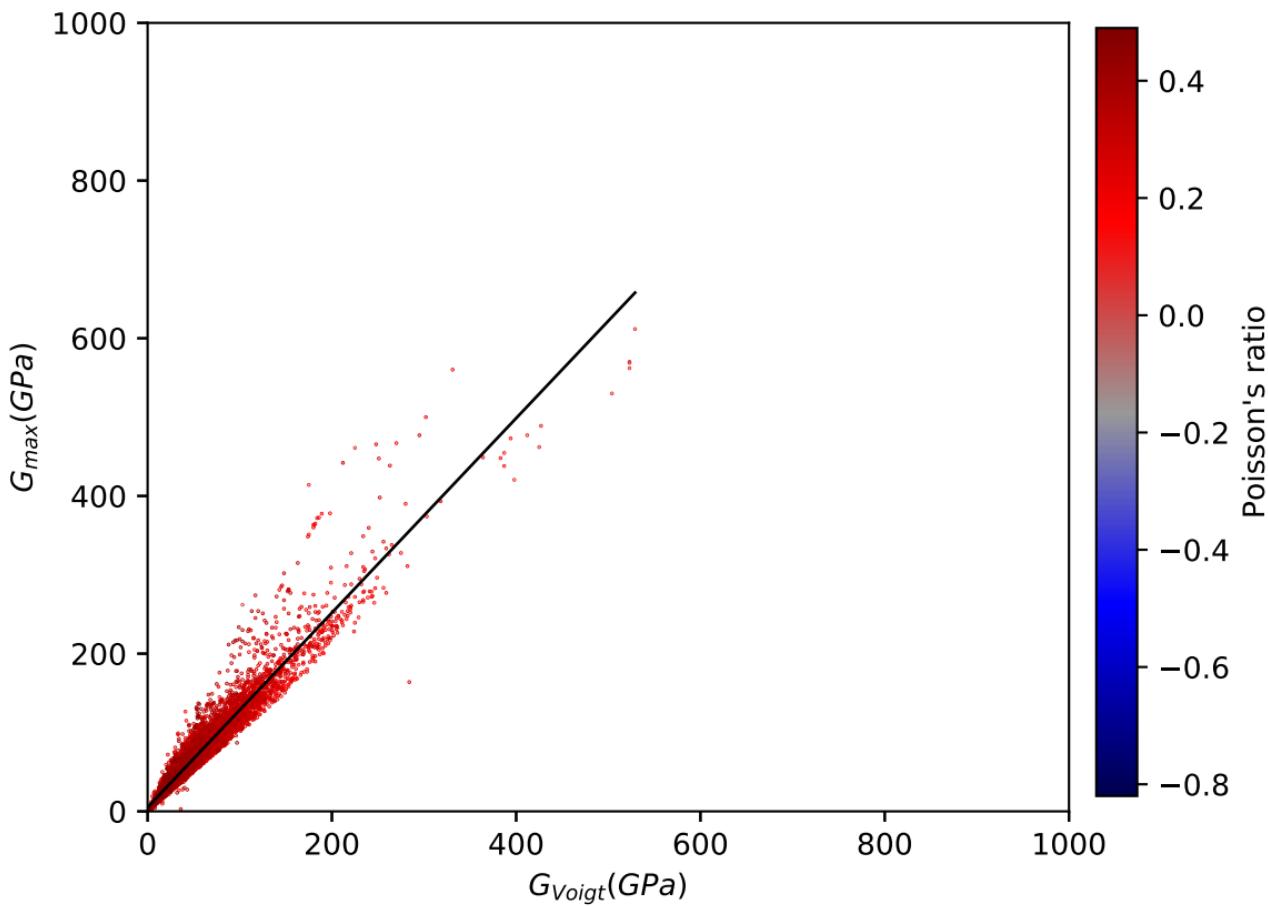


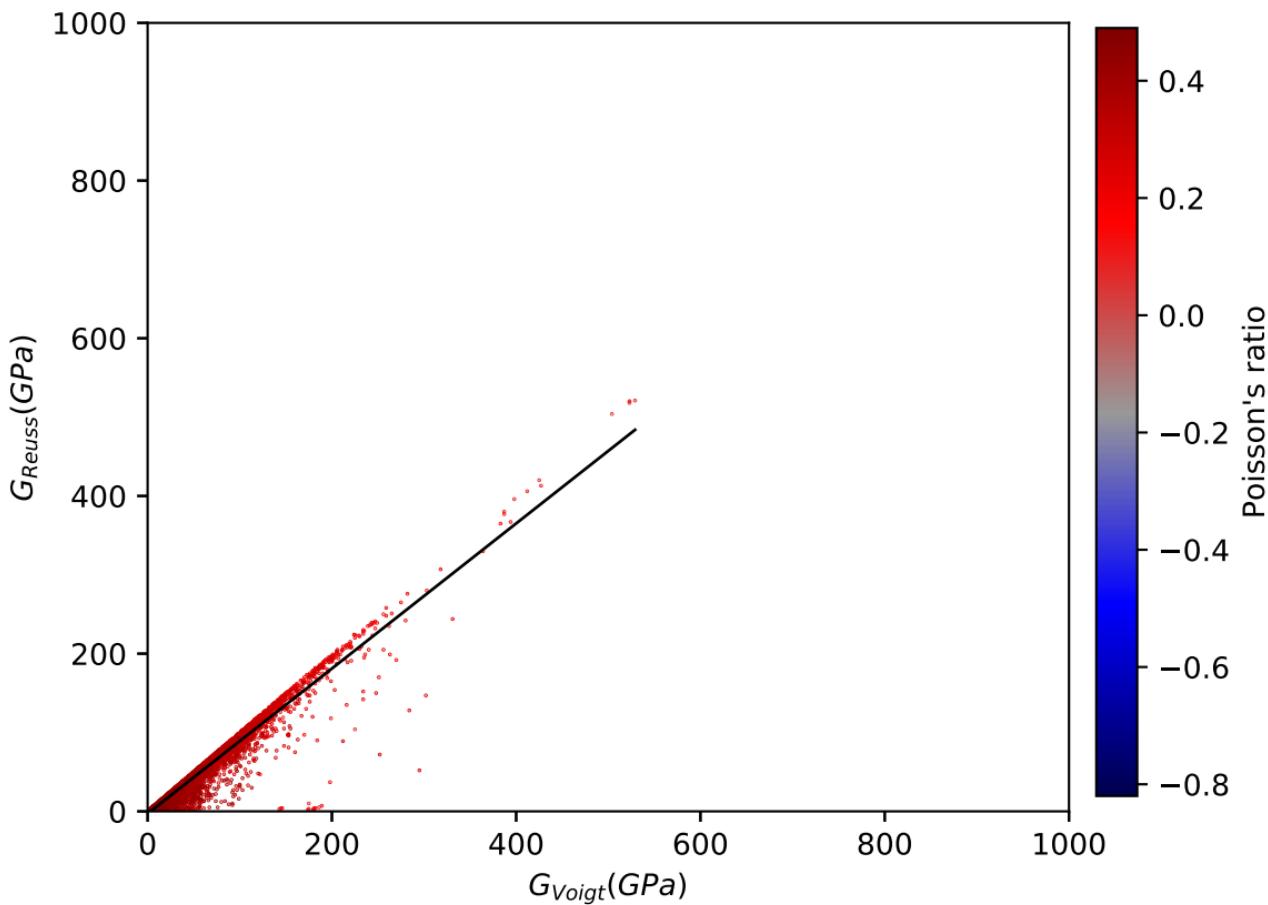


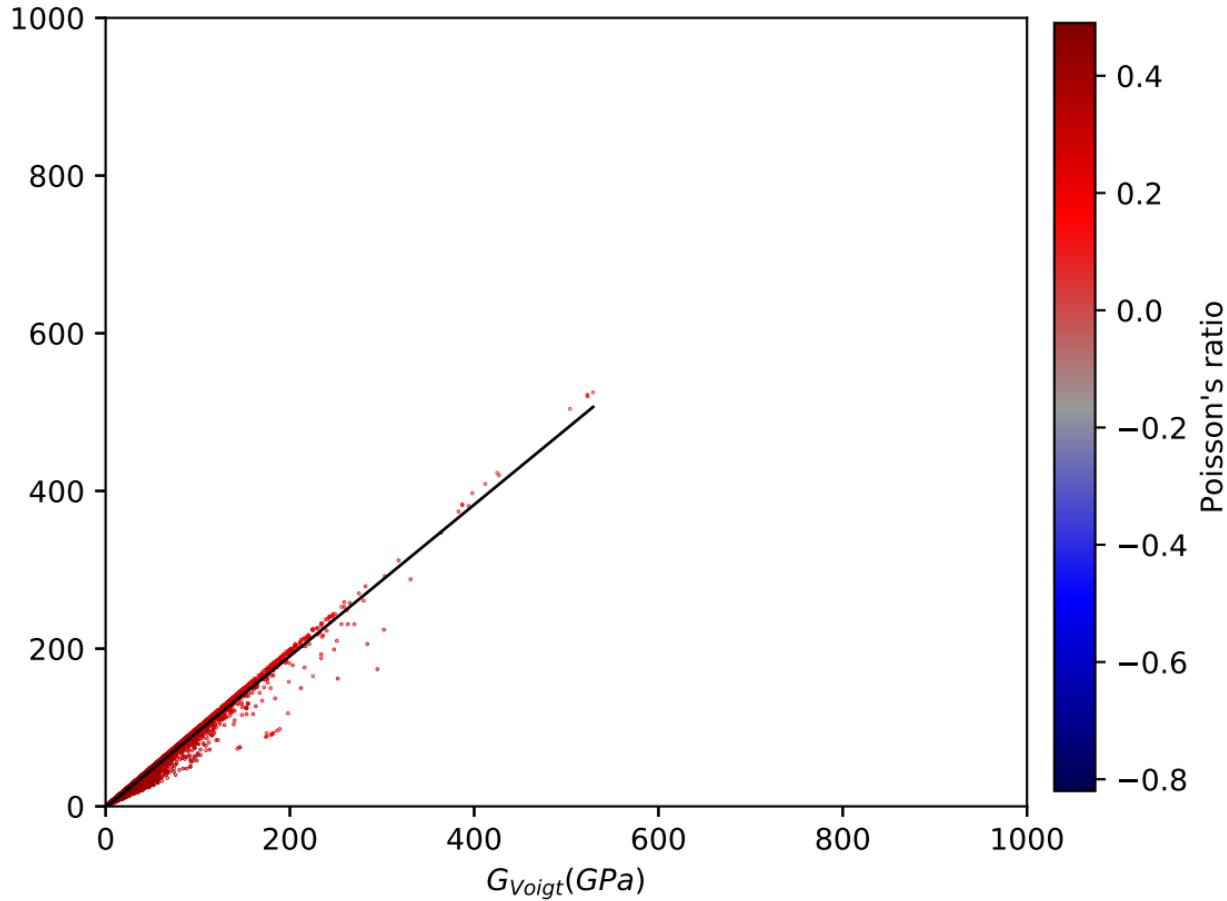


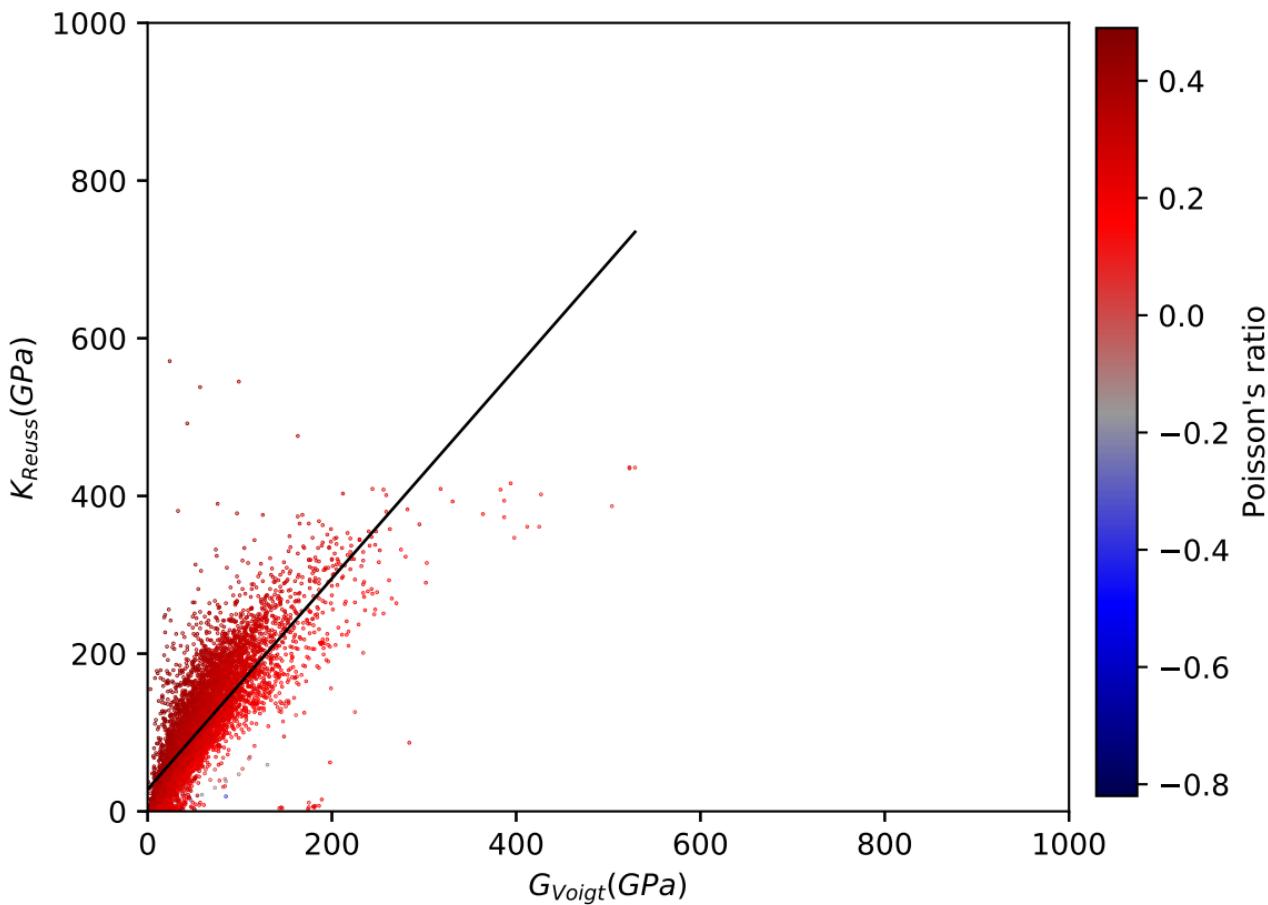


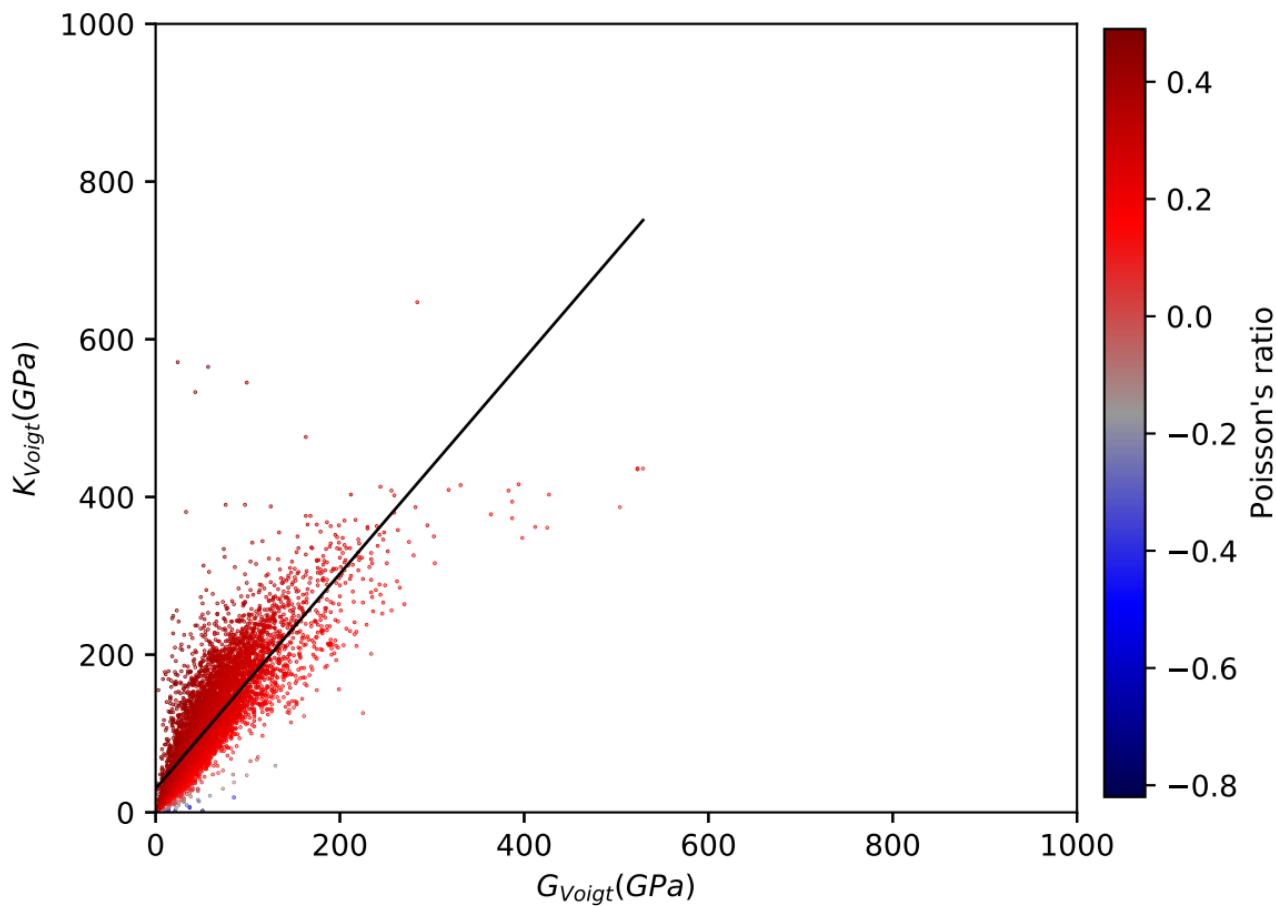


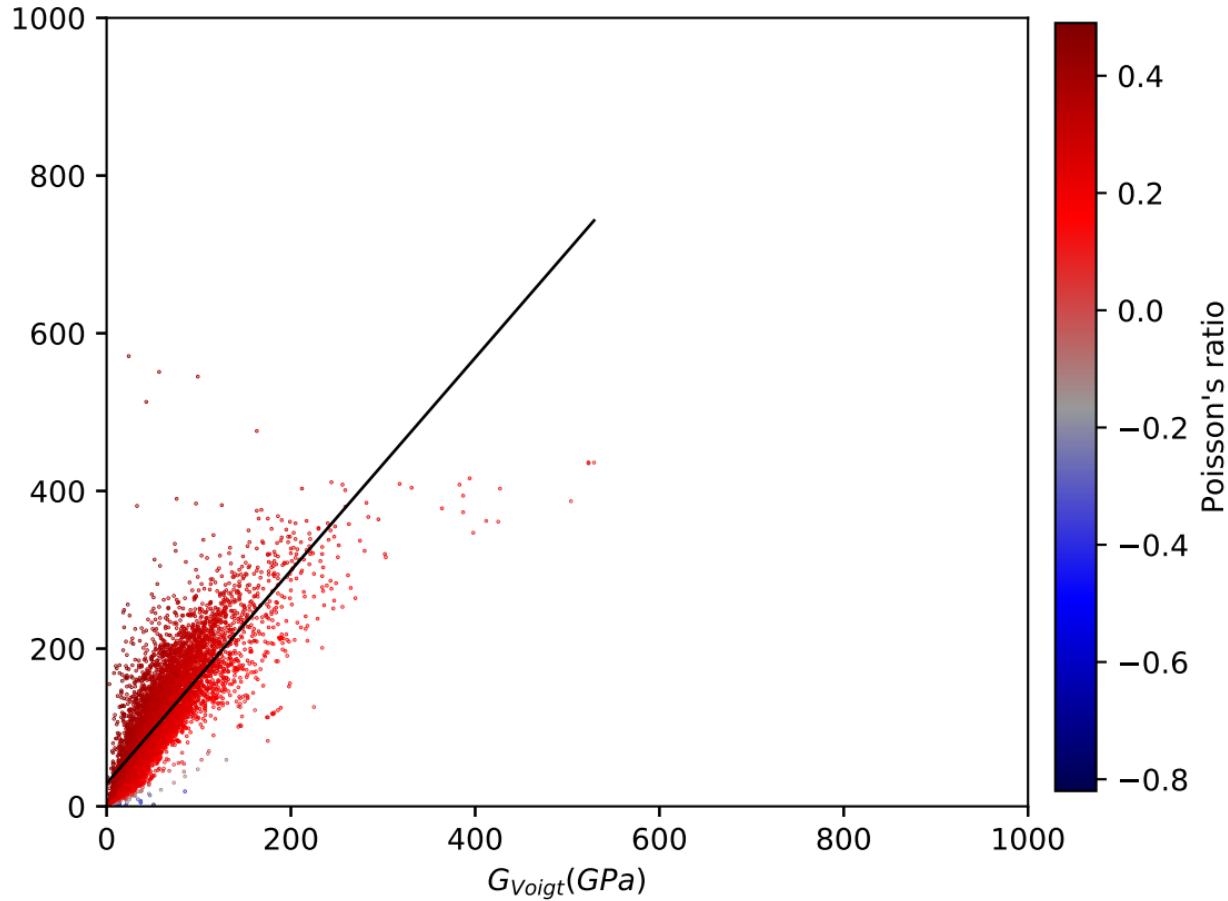


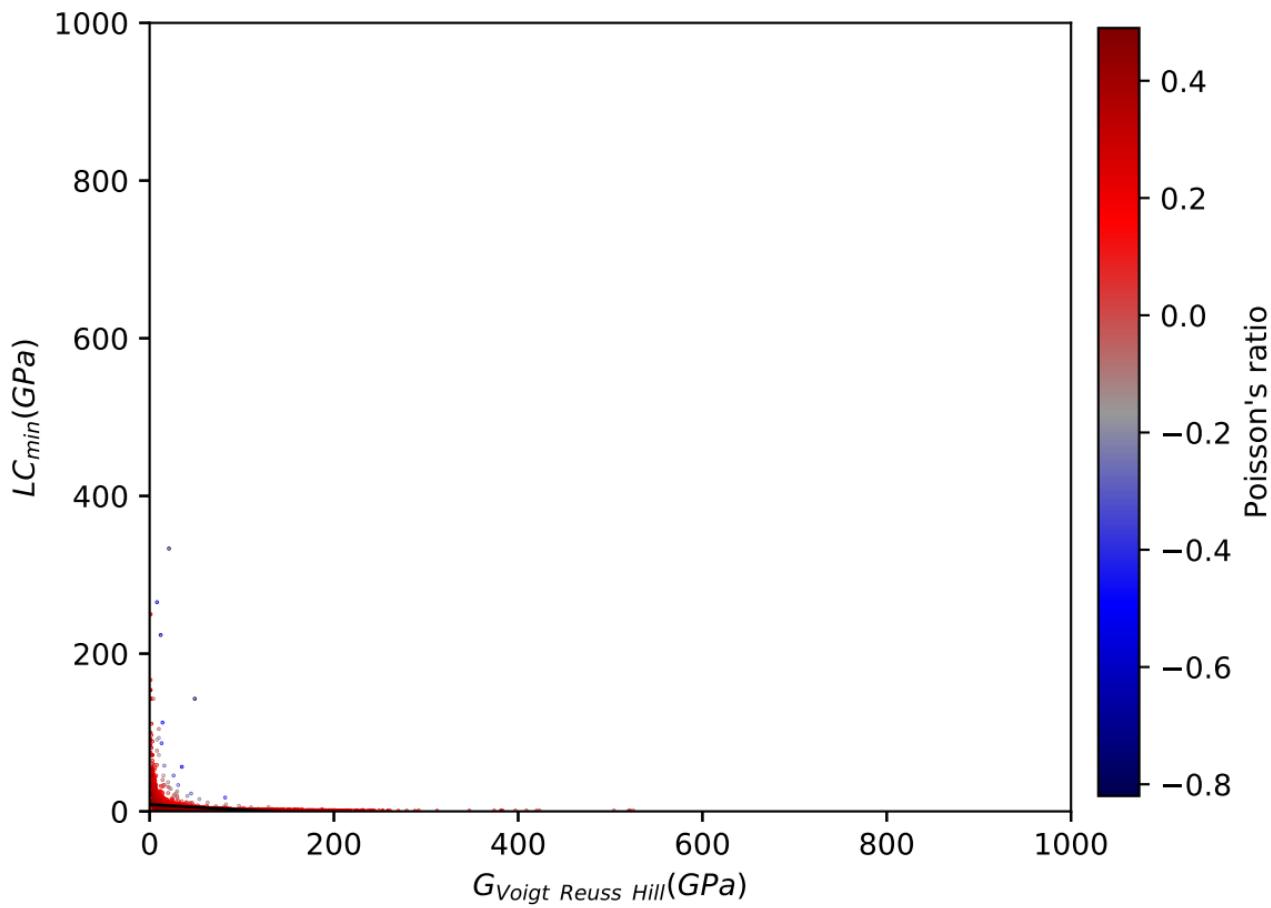


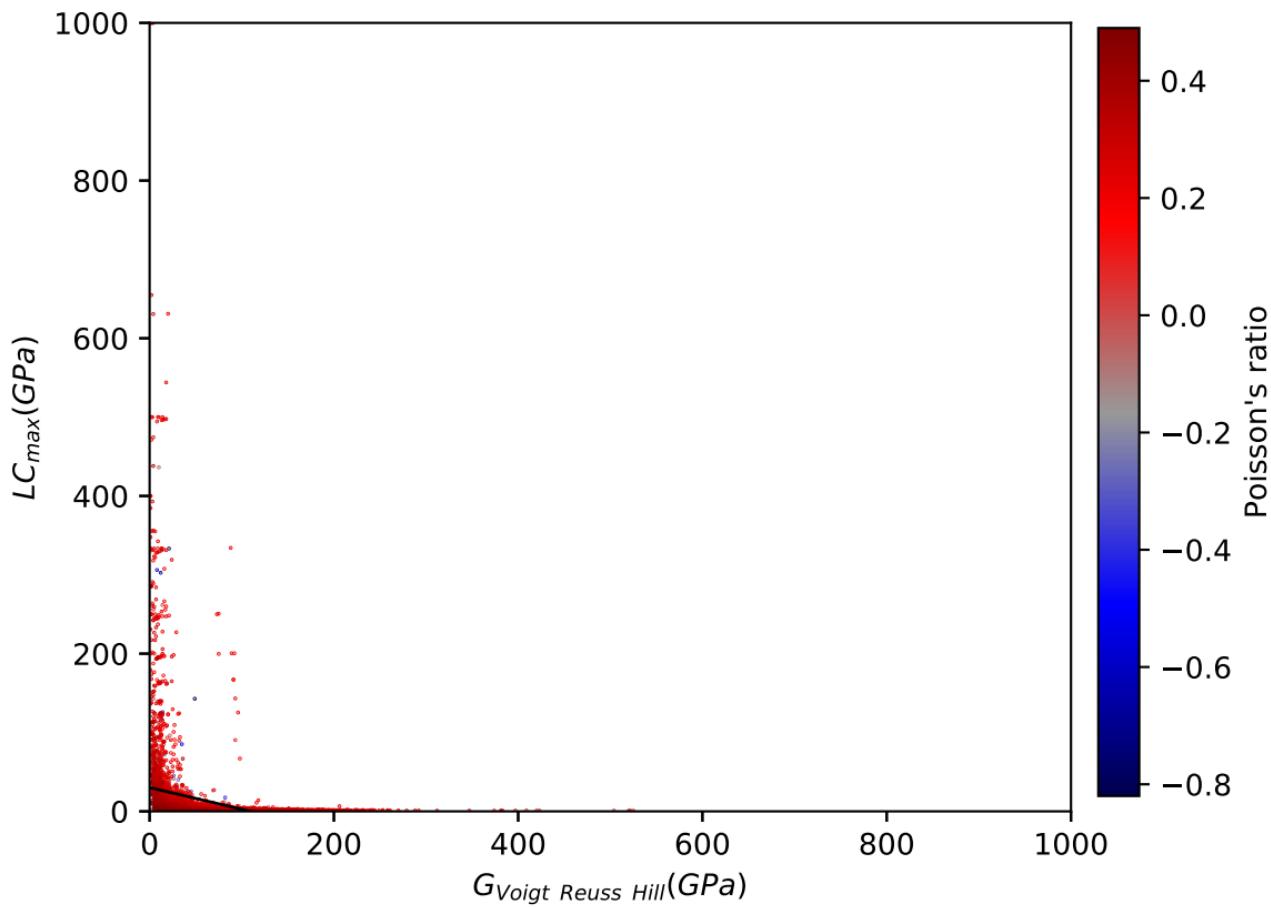
$G_{Voigt \text{ Reuss } Hill}(GPa)$ 

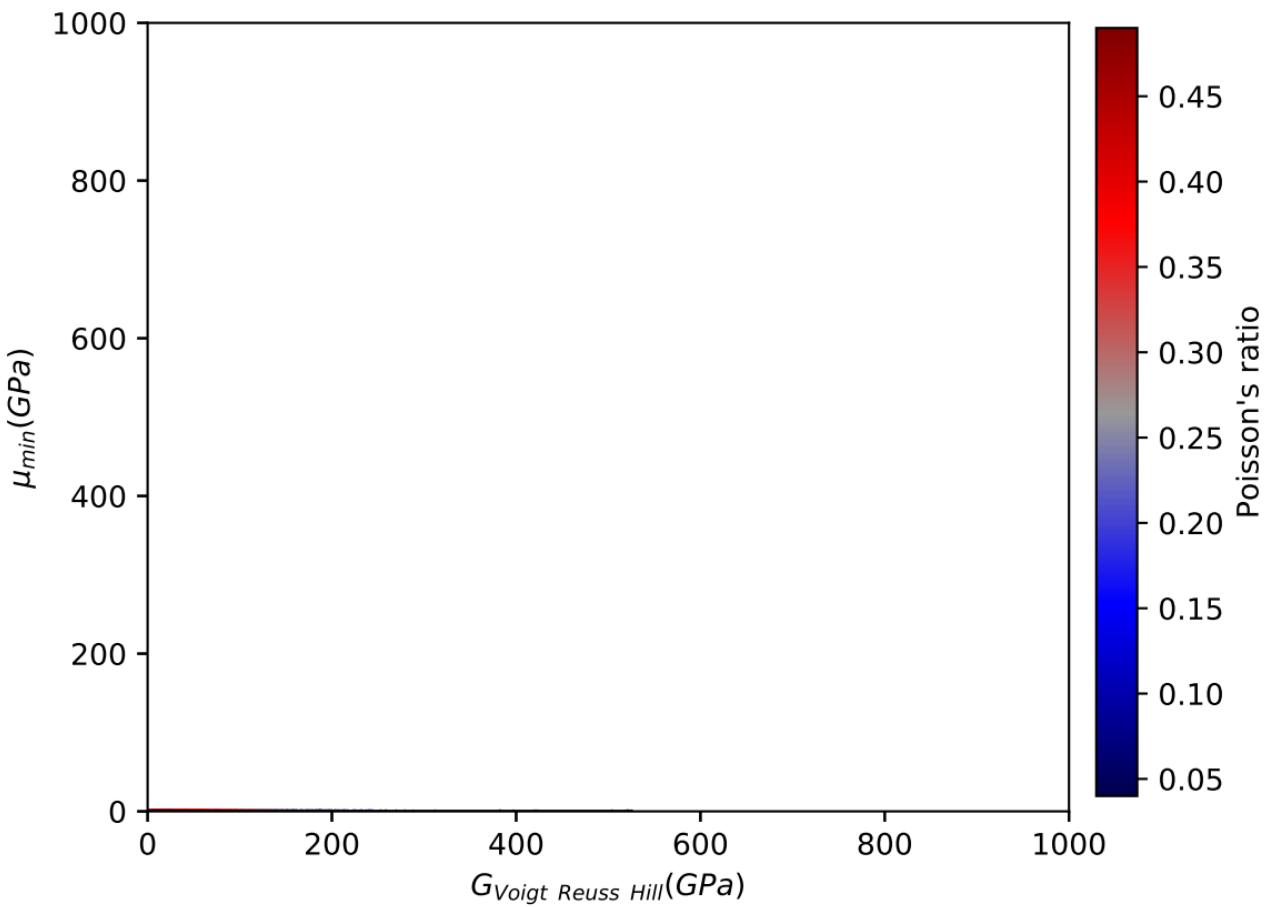


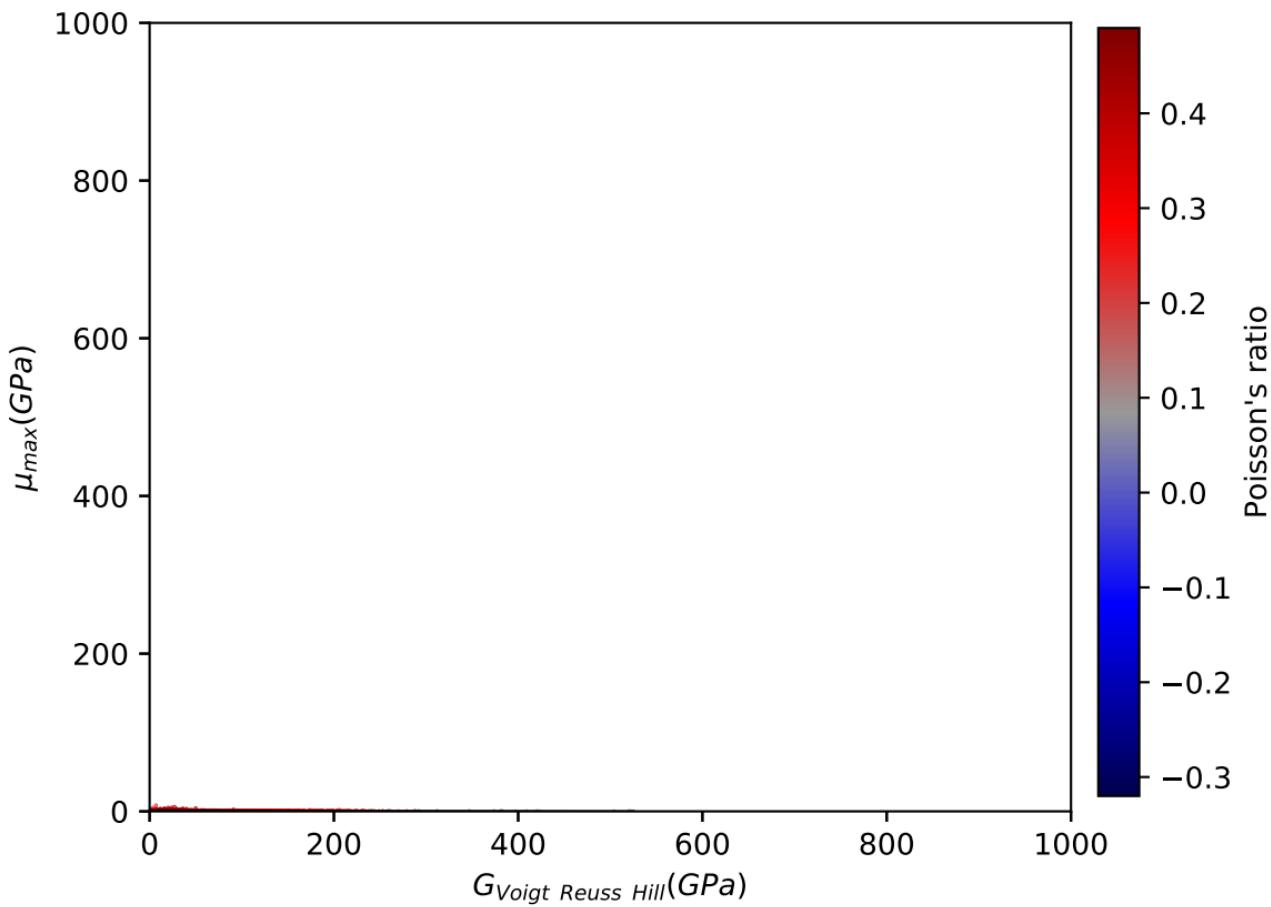


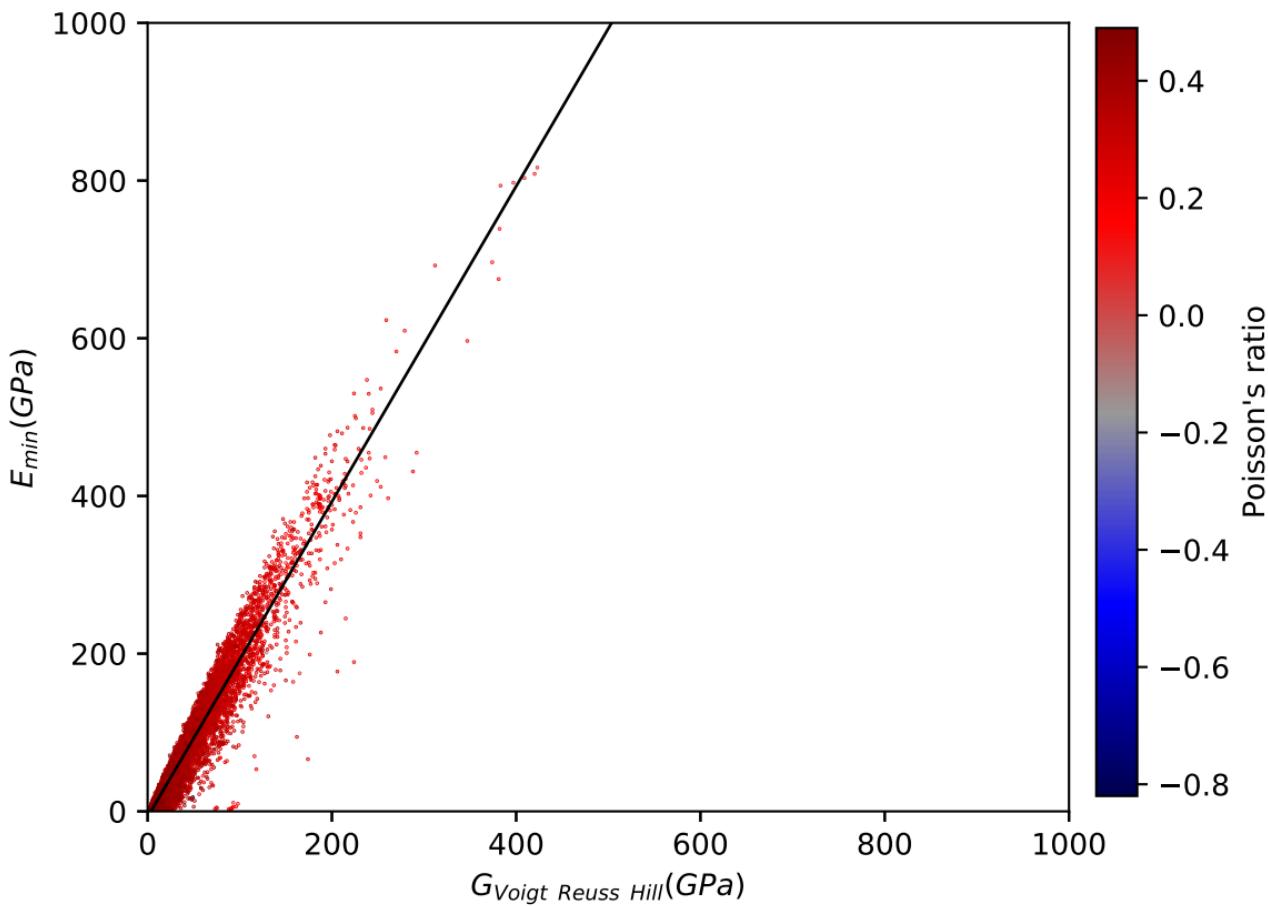
$K_{\text{Voigt Reuss Hill}}(\text{GPa})$ 

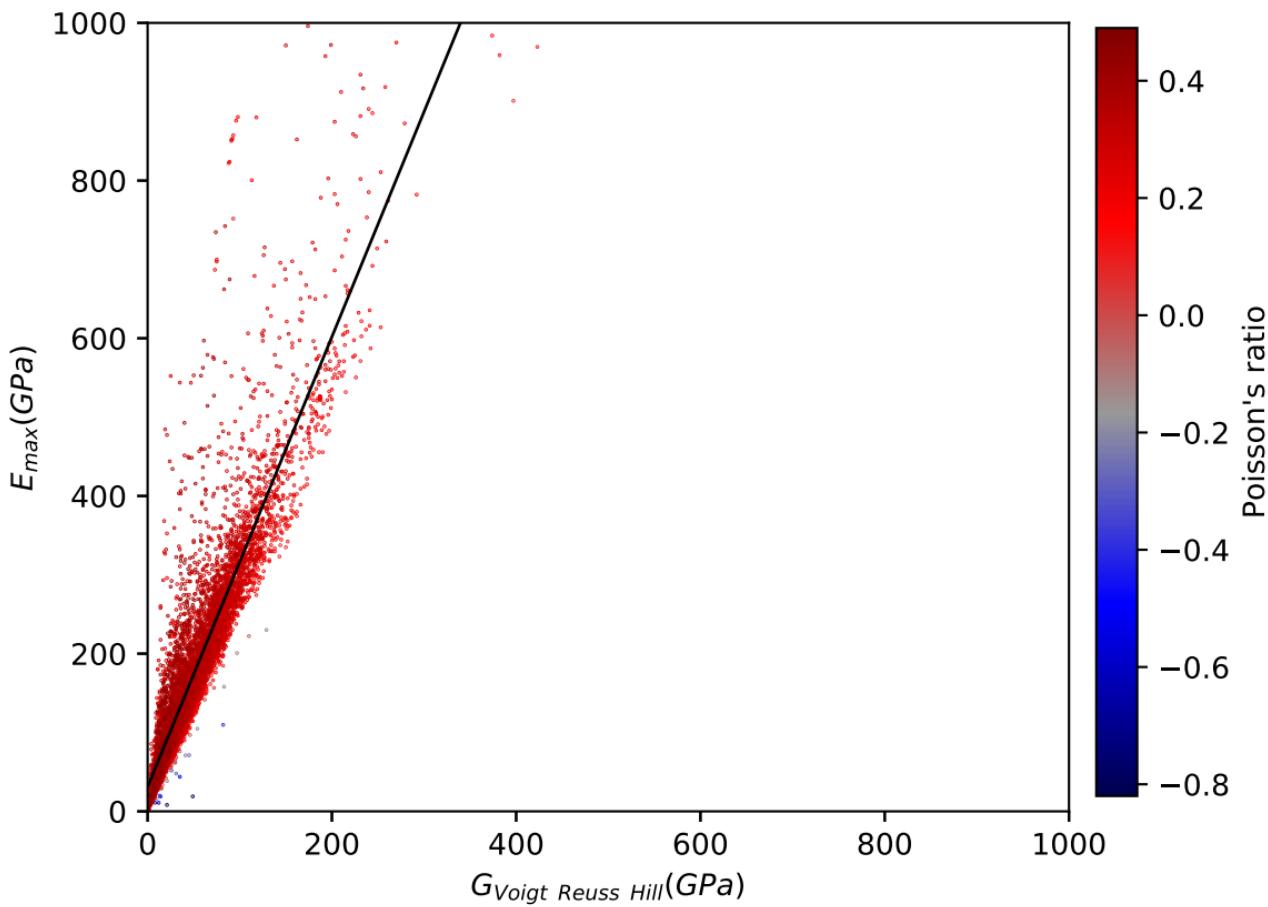


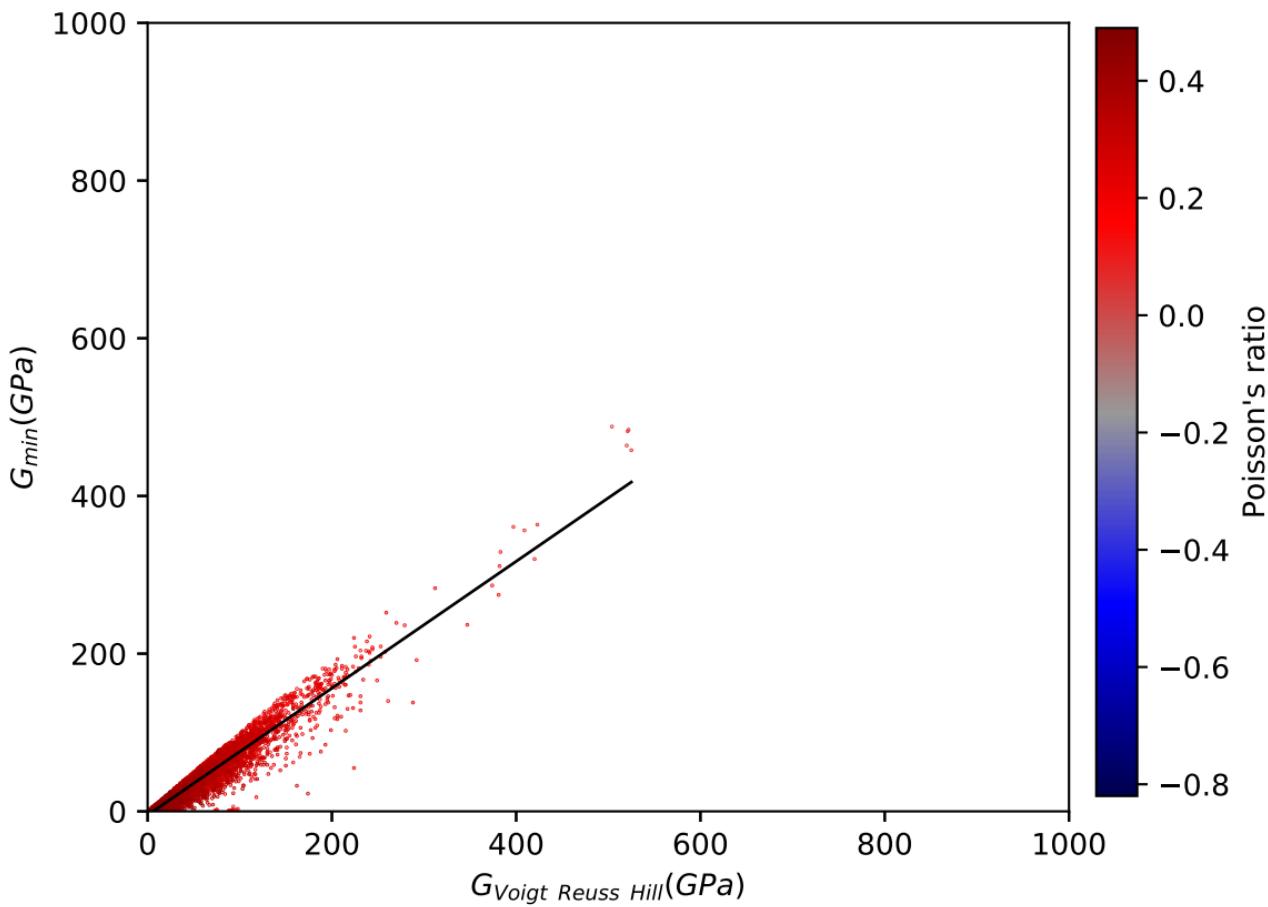


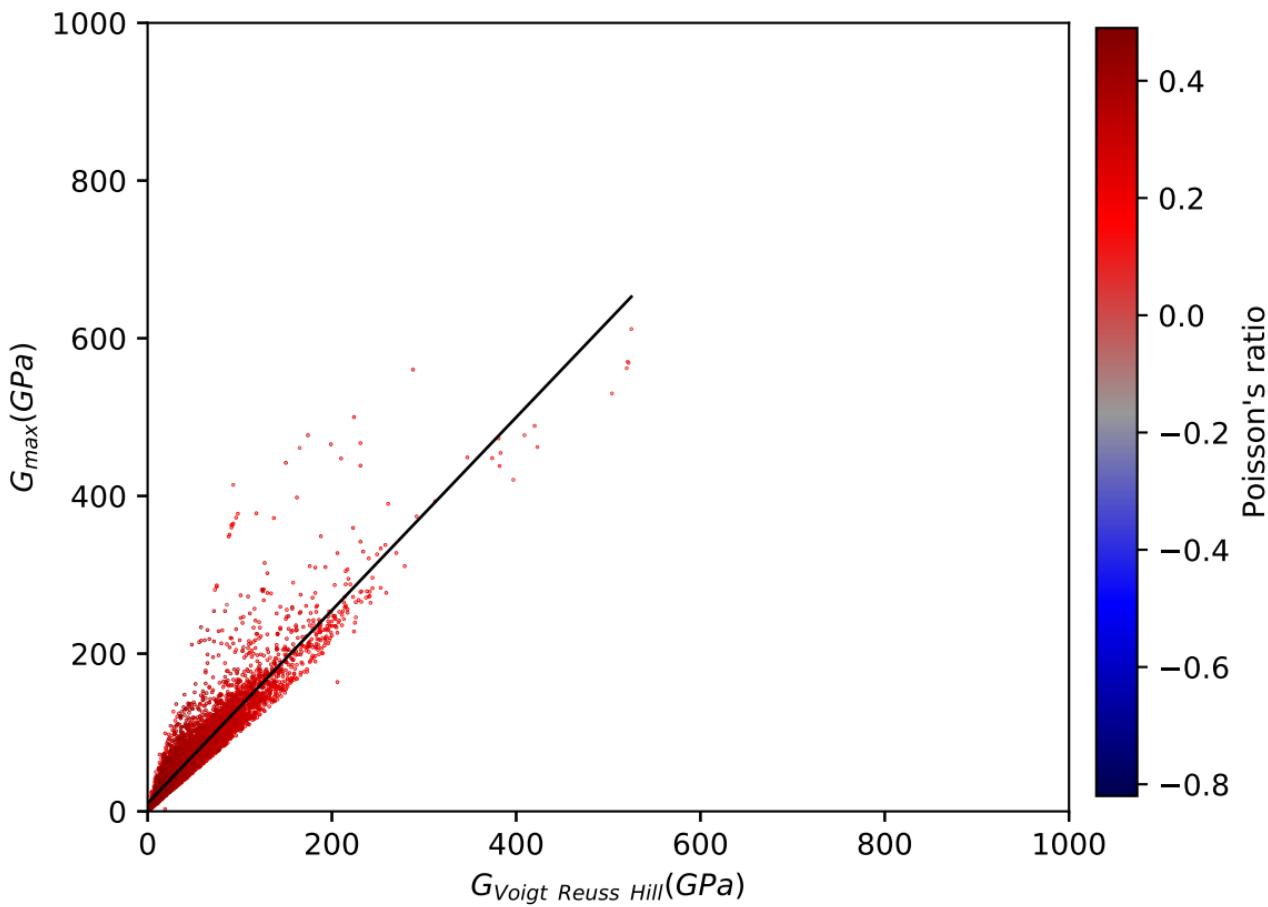


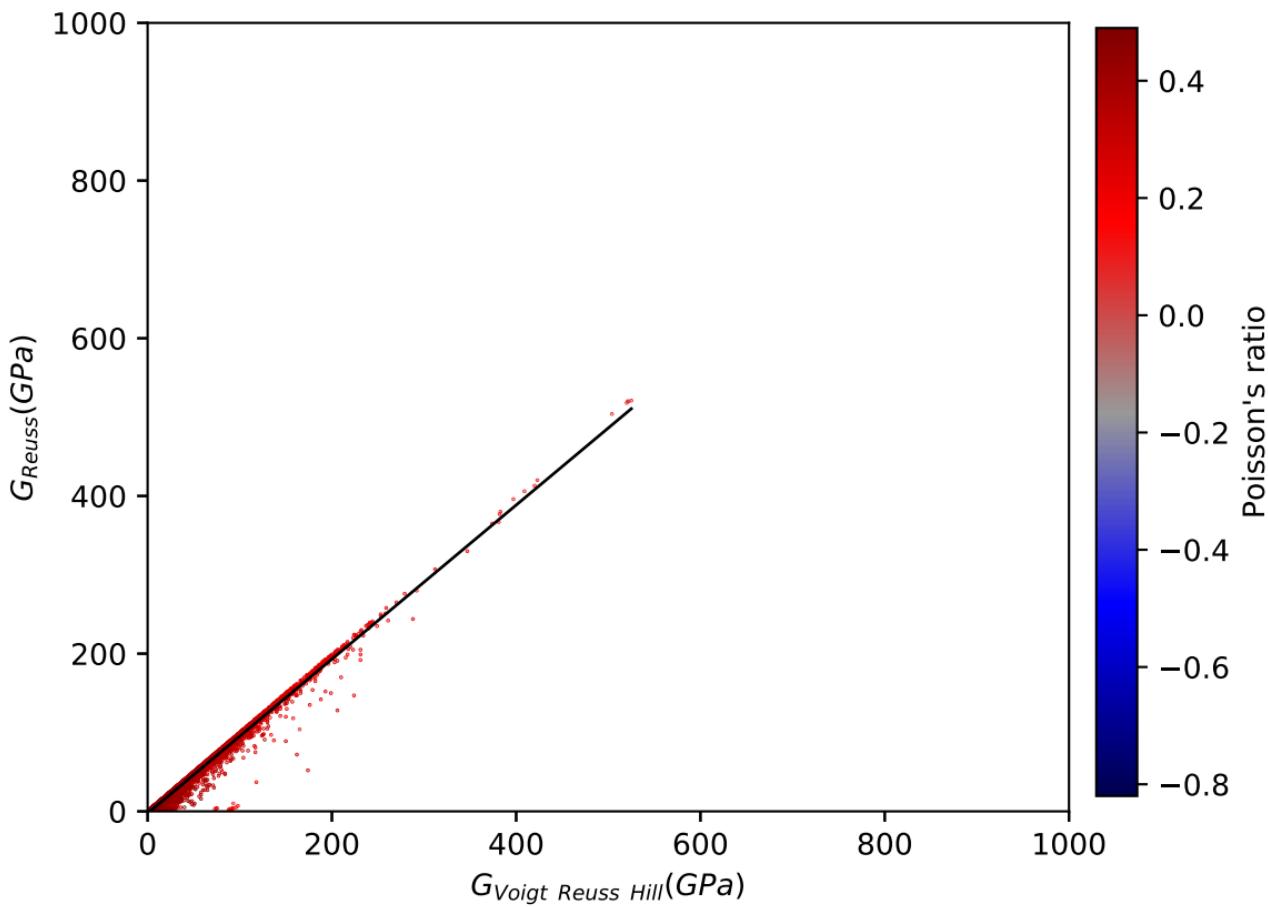


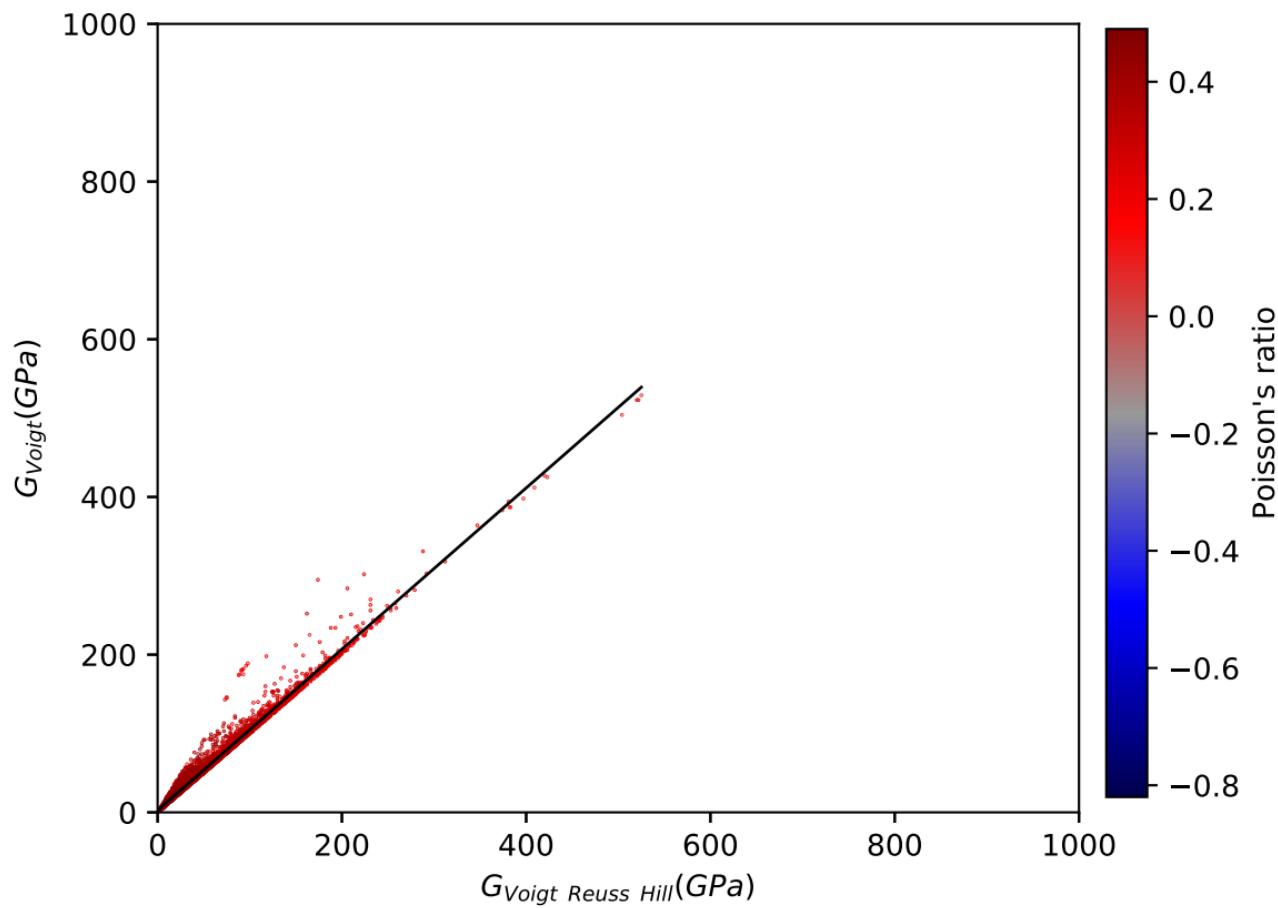


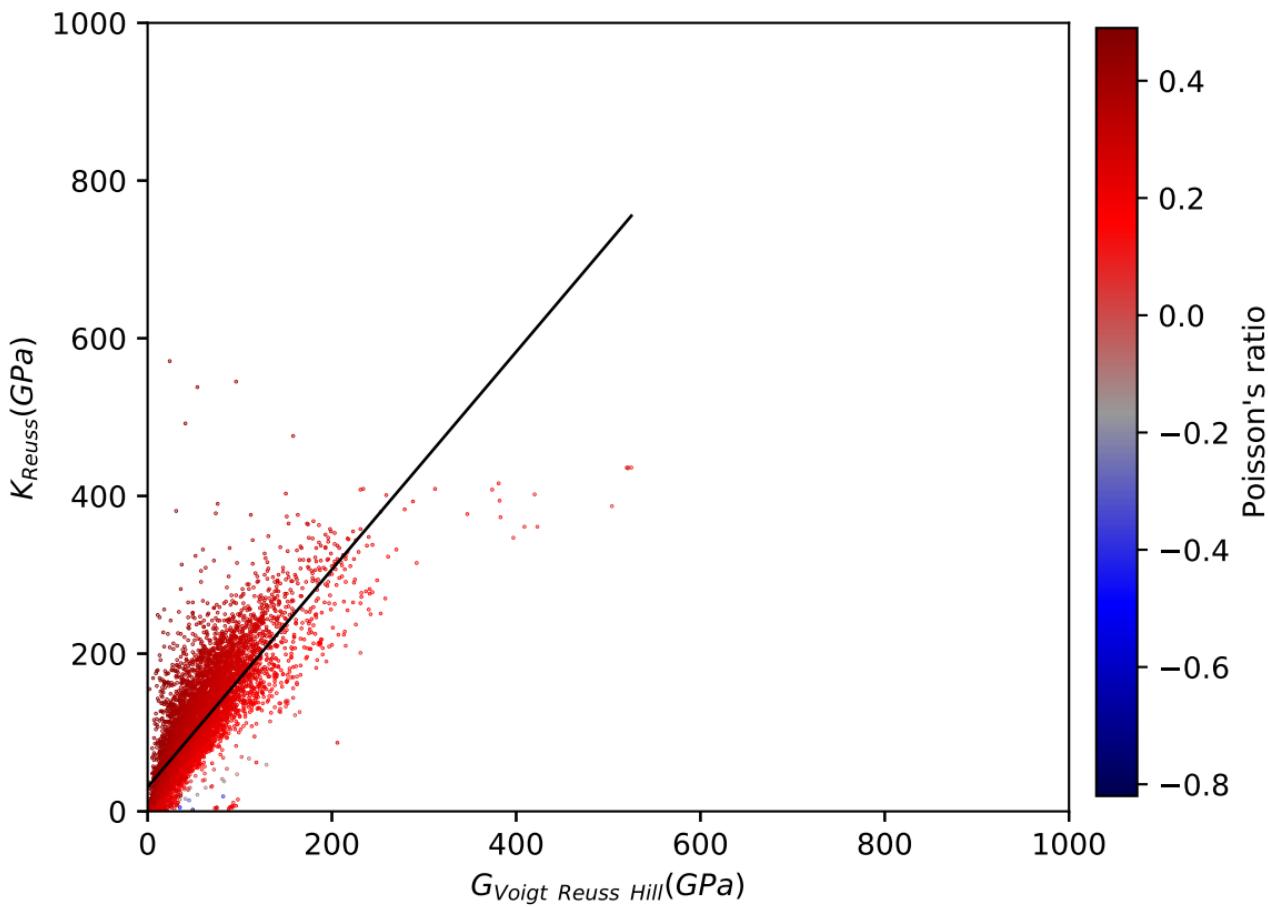


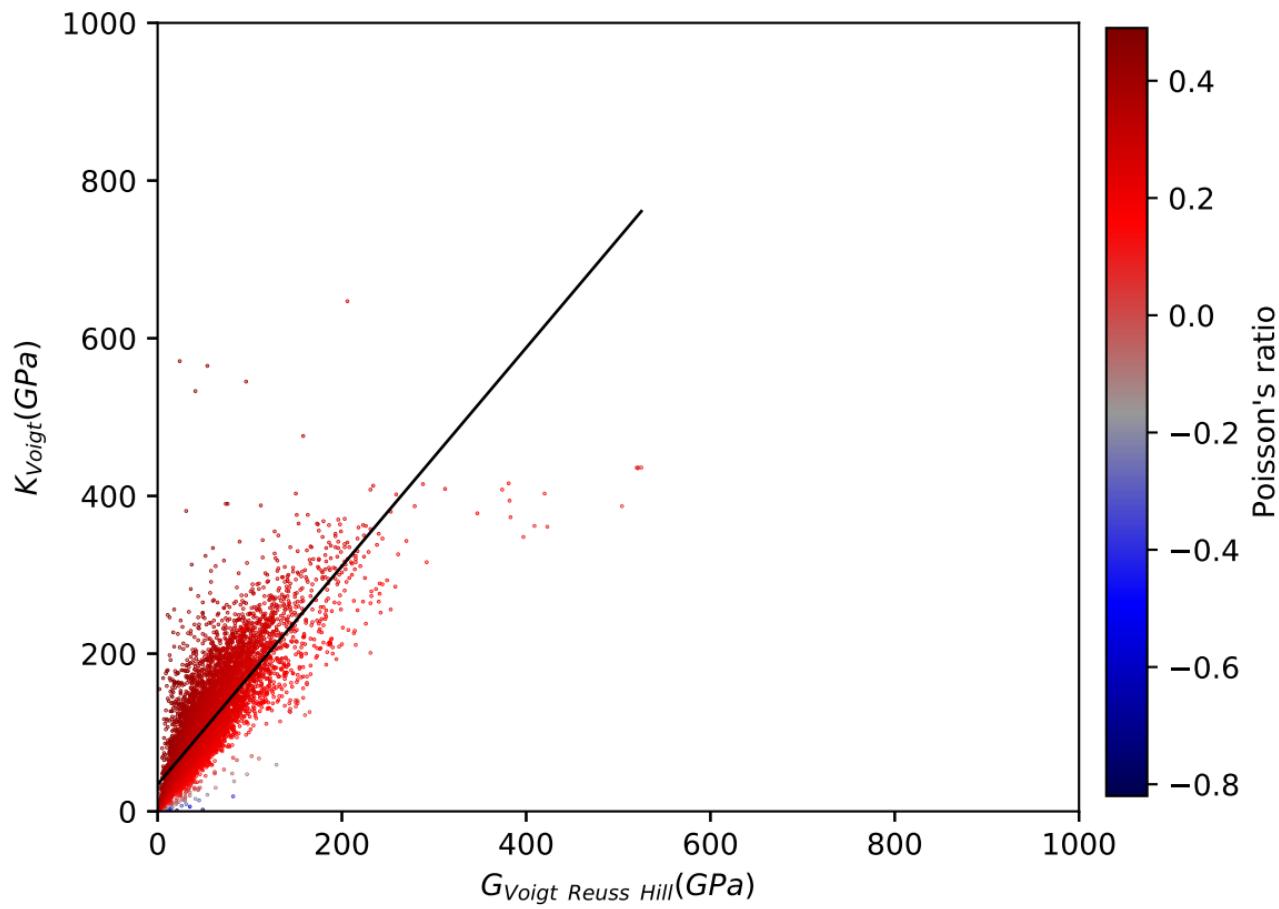


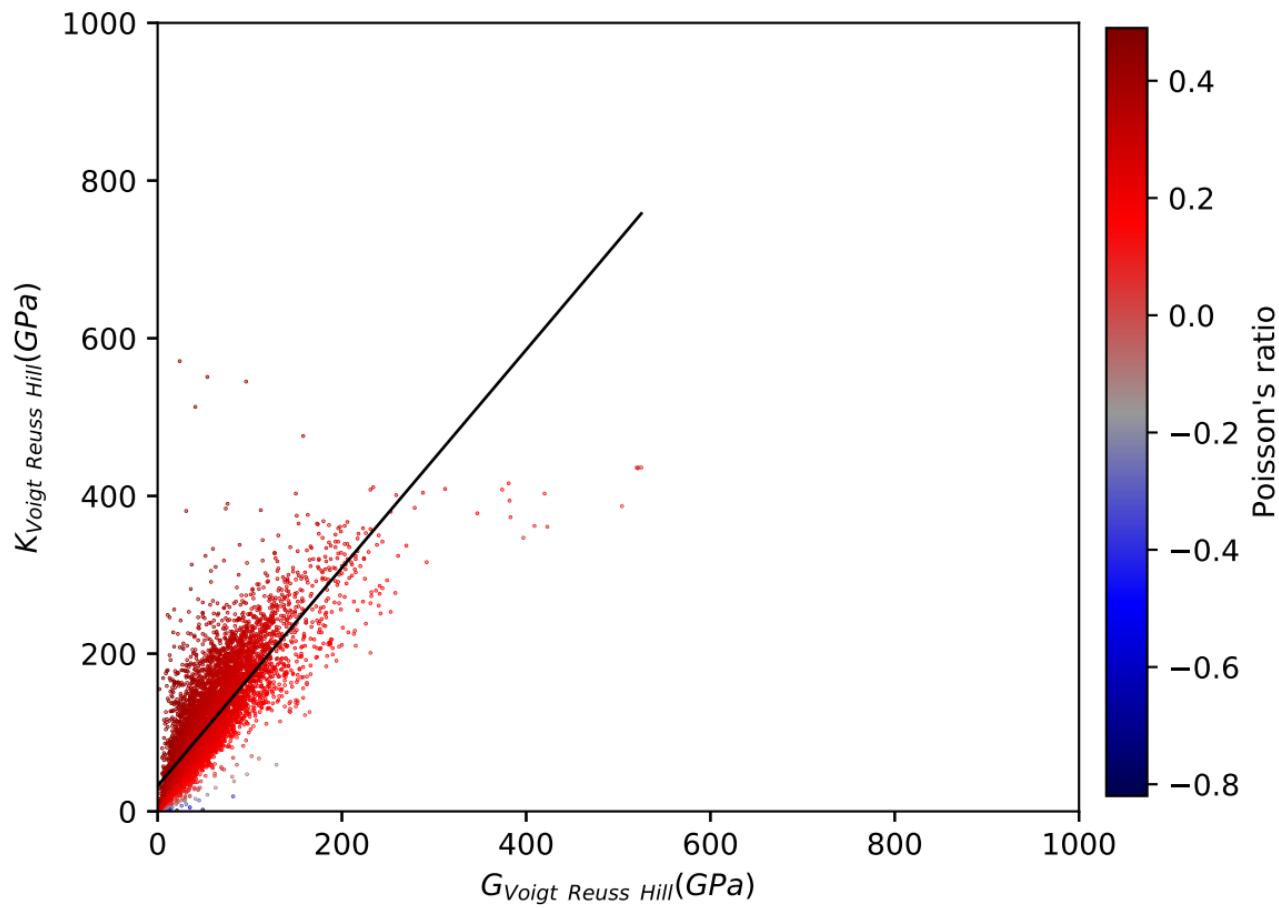


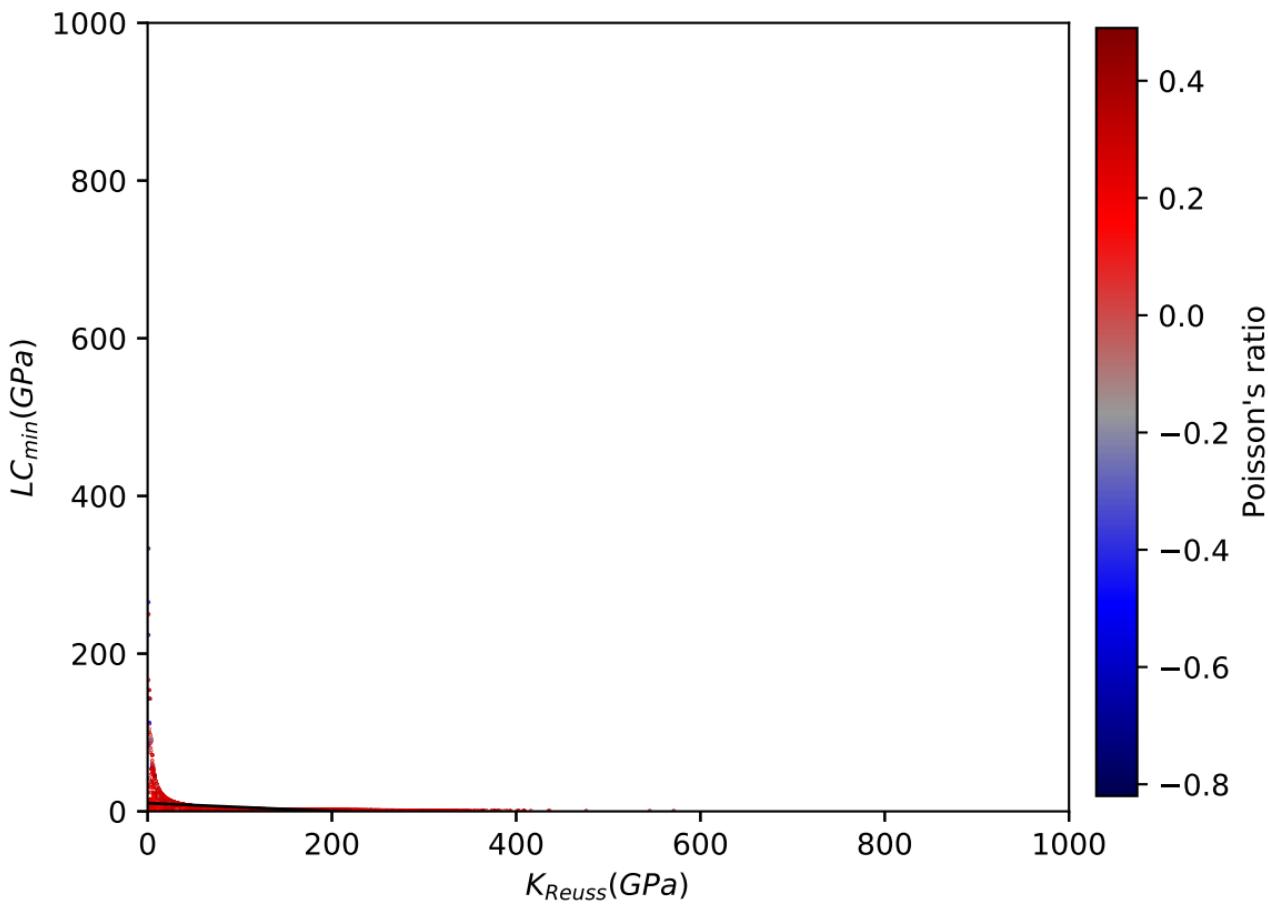


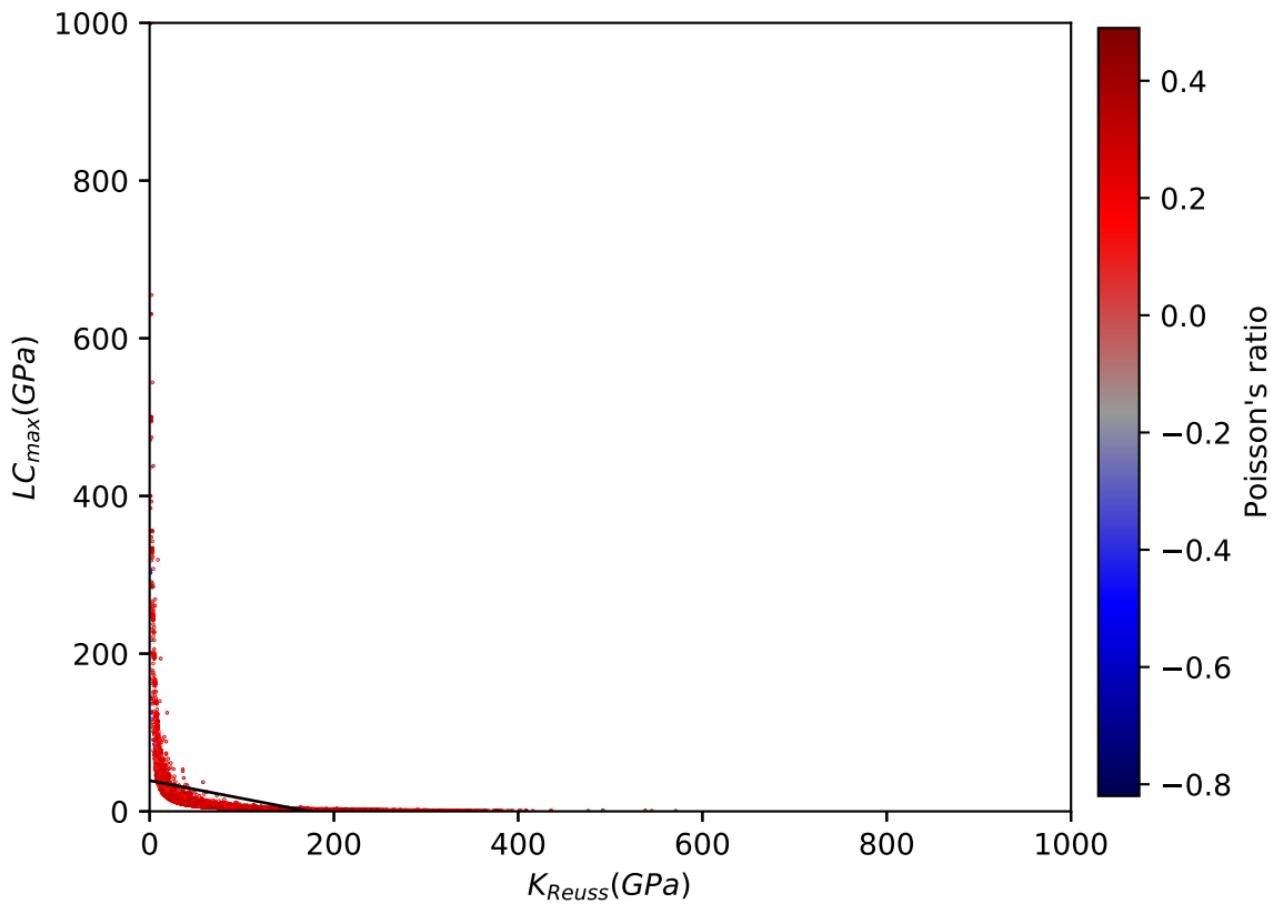


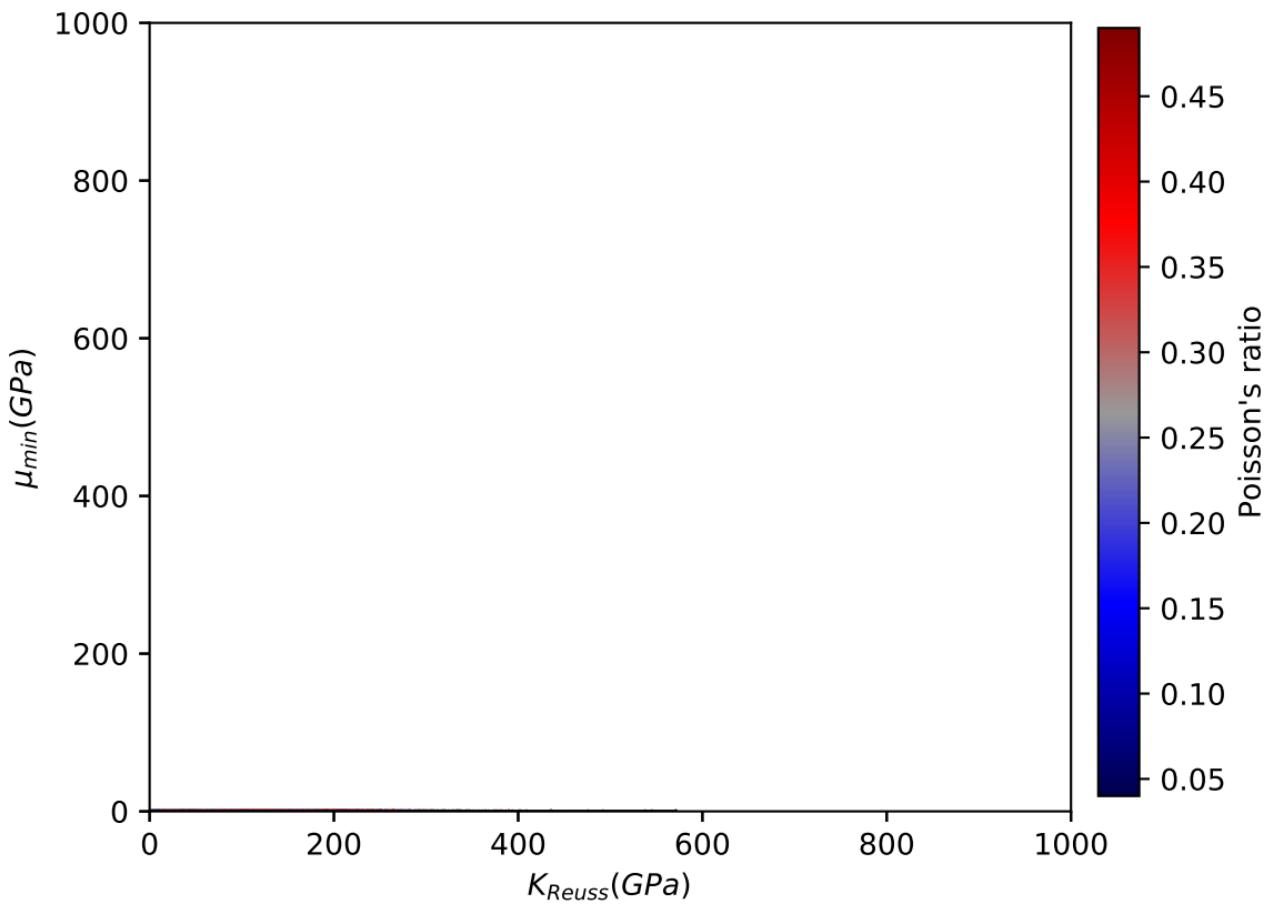


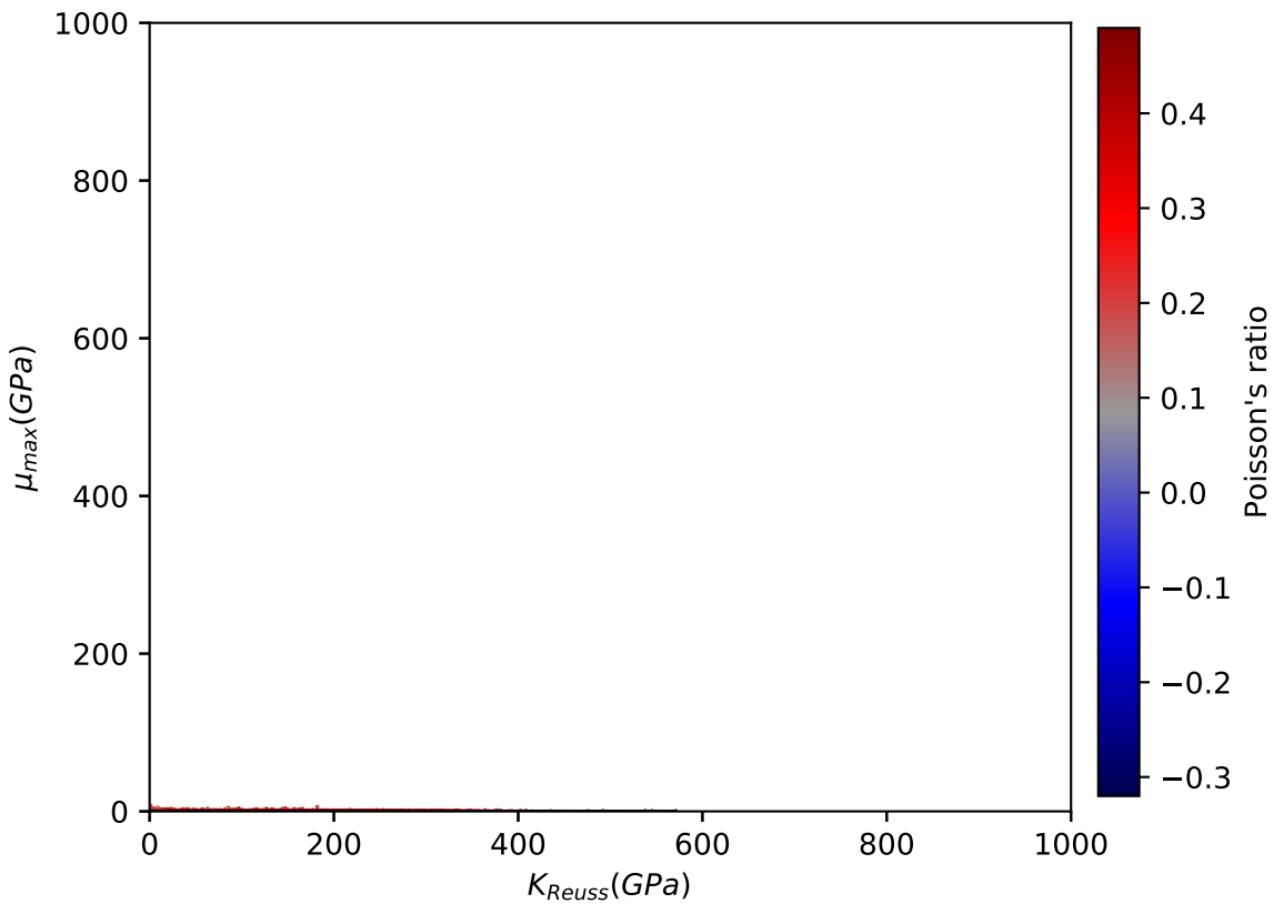


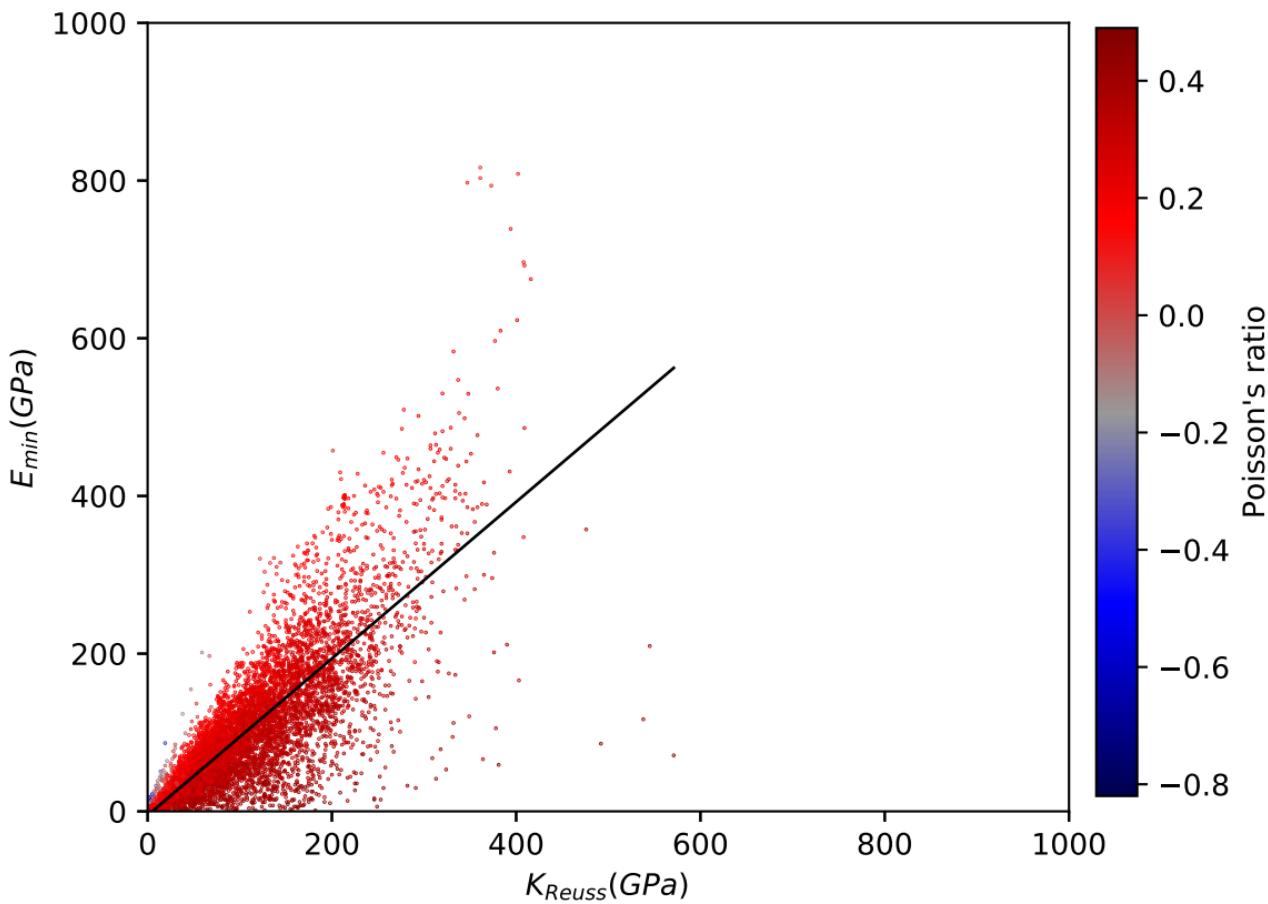


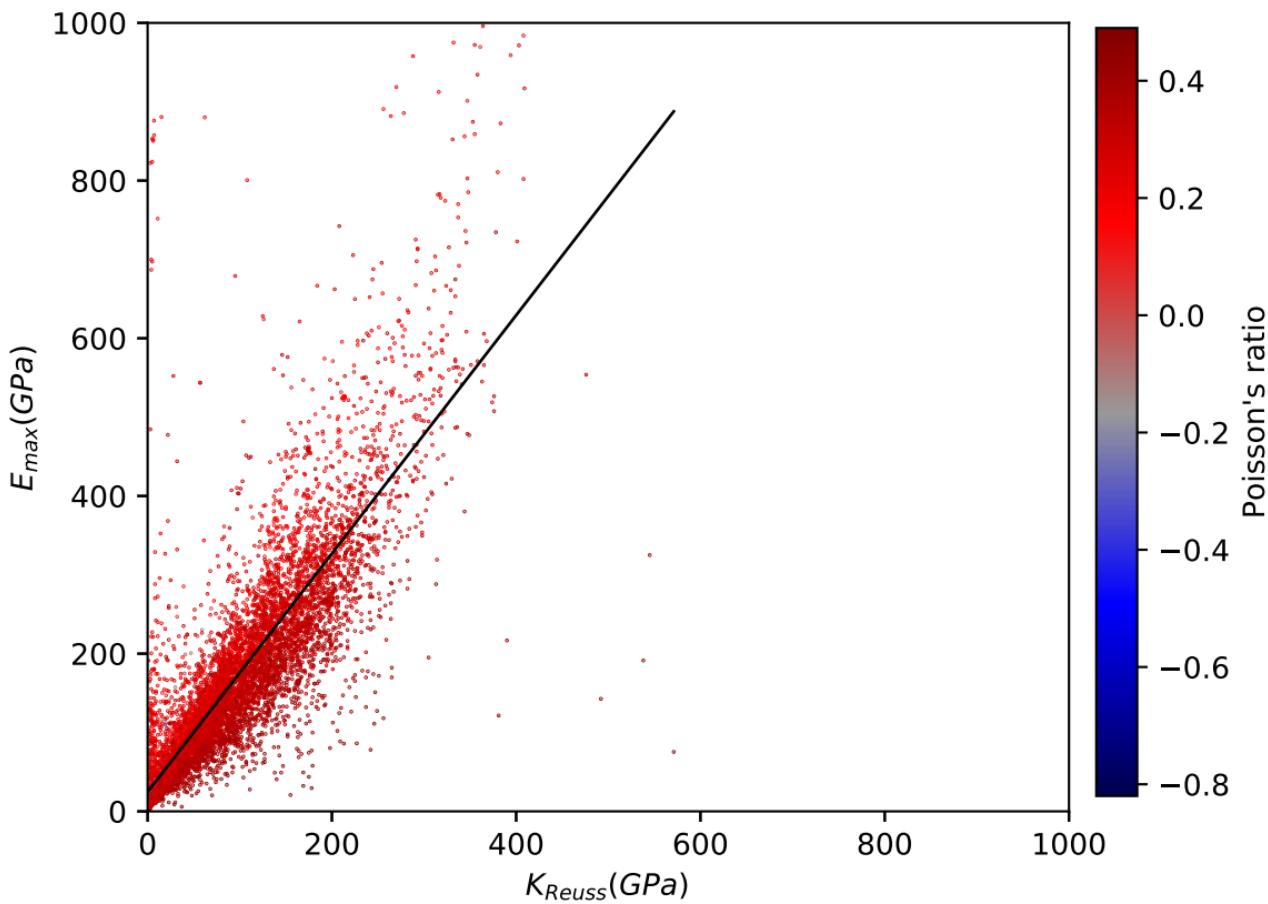


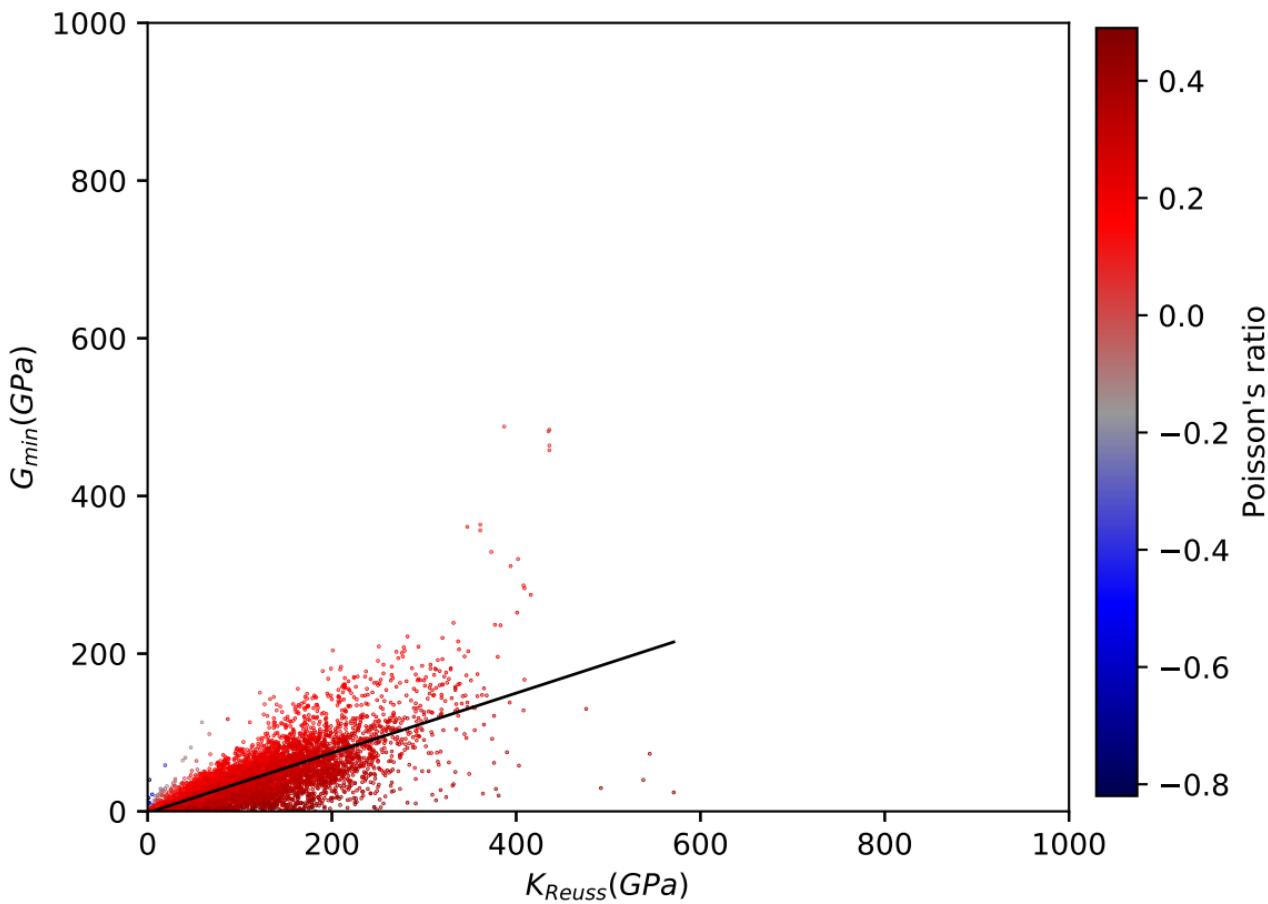


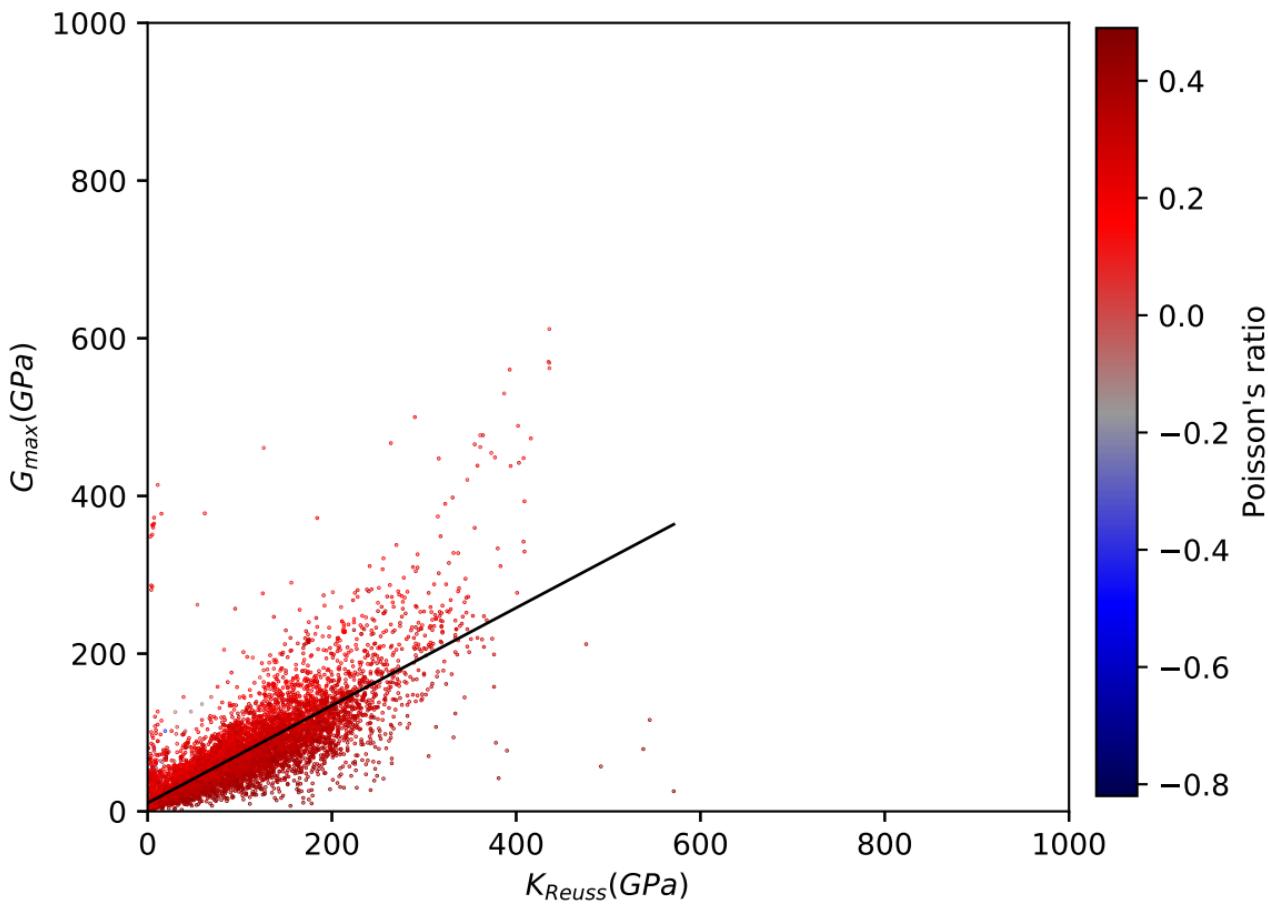


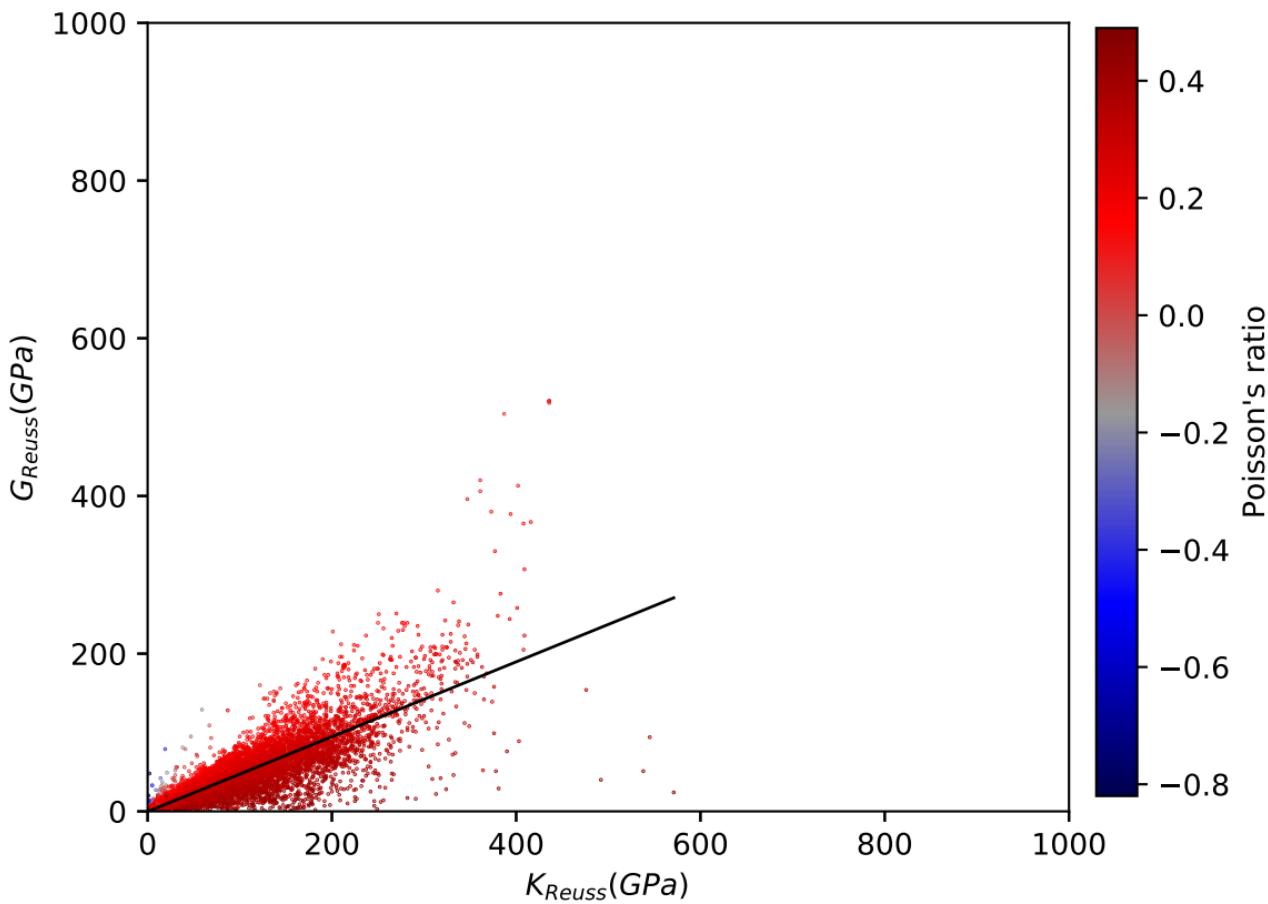


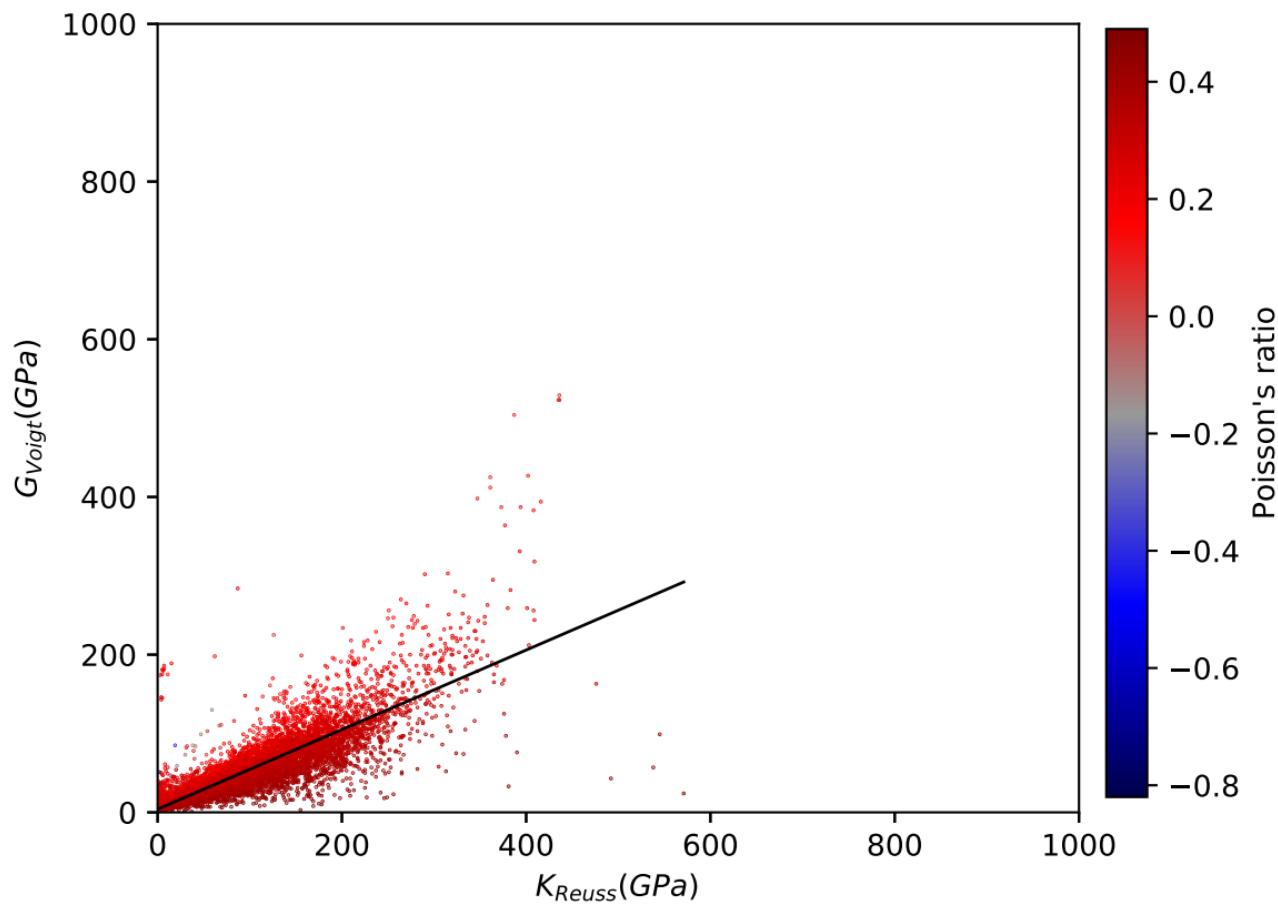


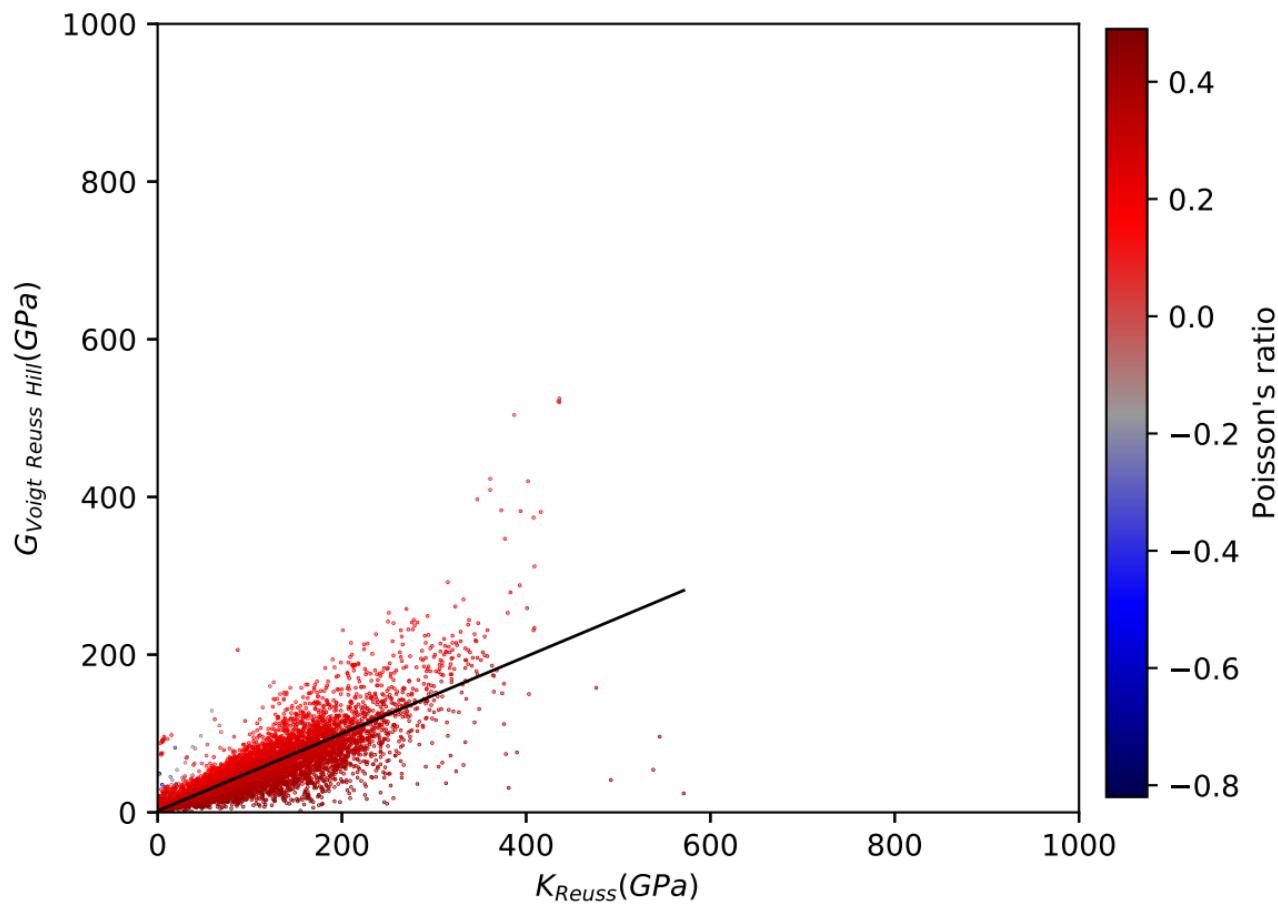


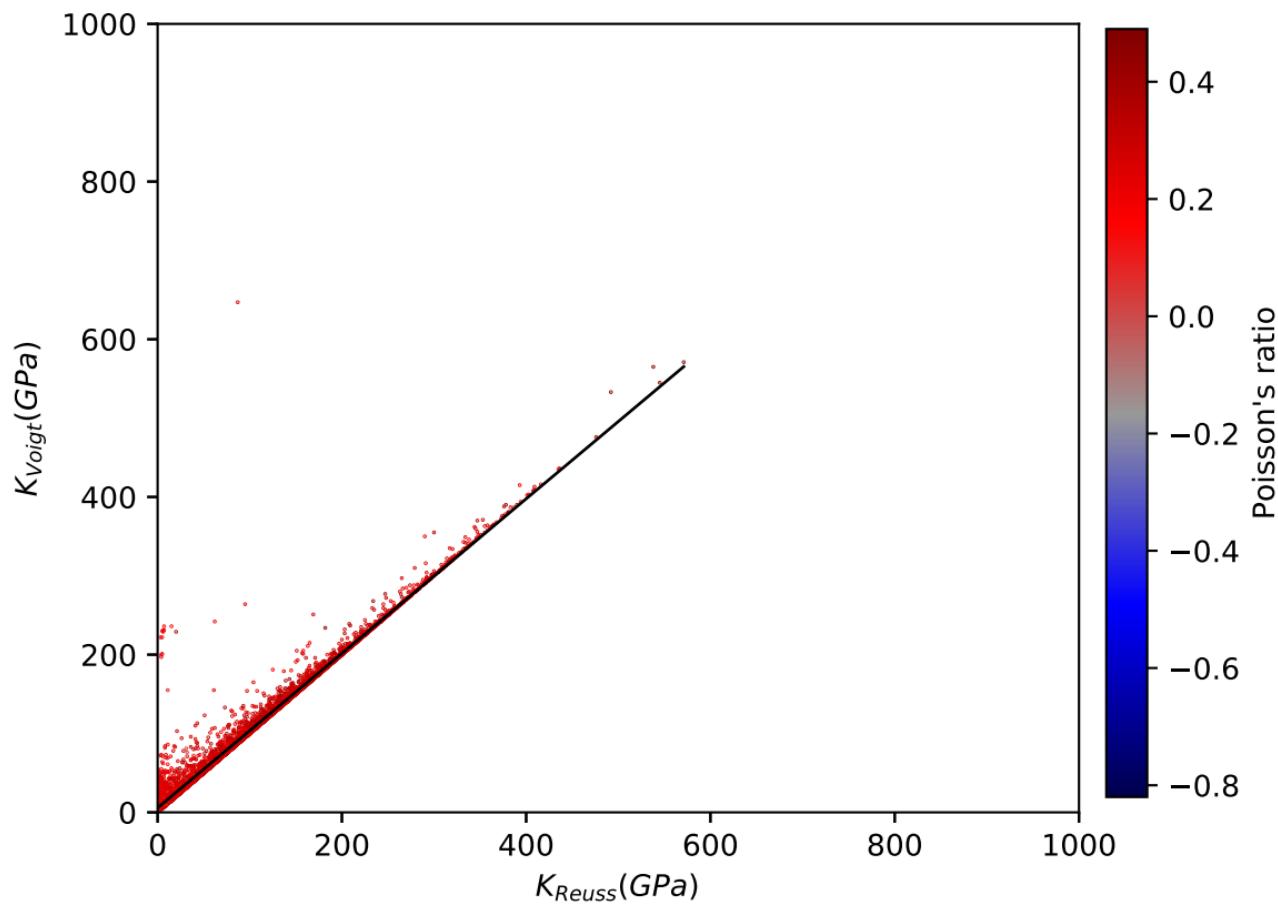












$K_{\text{Voigt Reuss Hill}}(\text{GPa})$

1000

800

600

400

200

0

200

400

600

800

1000

$K_{\text{Reuss}}(\text{GPa})$



Poisson's ratio

0.4

0.2

0.0

-0.2

-0.4

-0.6

-0.8

