(A) Innovation-Equity Relationship

Legend:
- Linear fit (r=0.347)
- Low Inequality Zone (Gini ≤ 0.11)
- Max Innov. with Gini≤0.11 (515k)

X-axis: **Innovation Output (thousands)**
Y-axis: **Gini Coefficient**
Color bar: Cultural Diversity
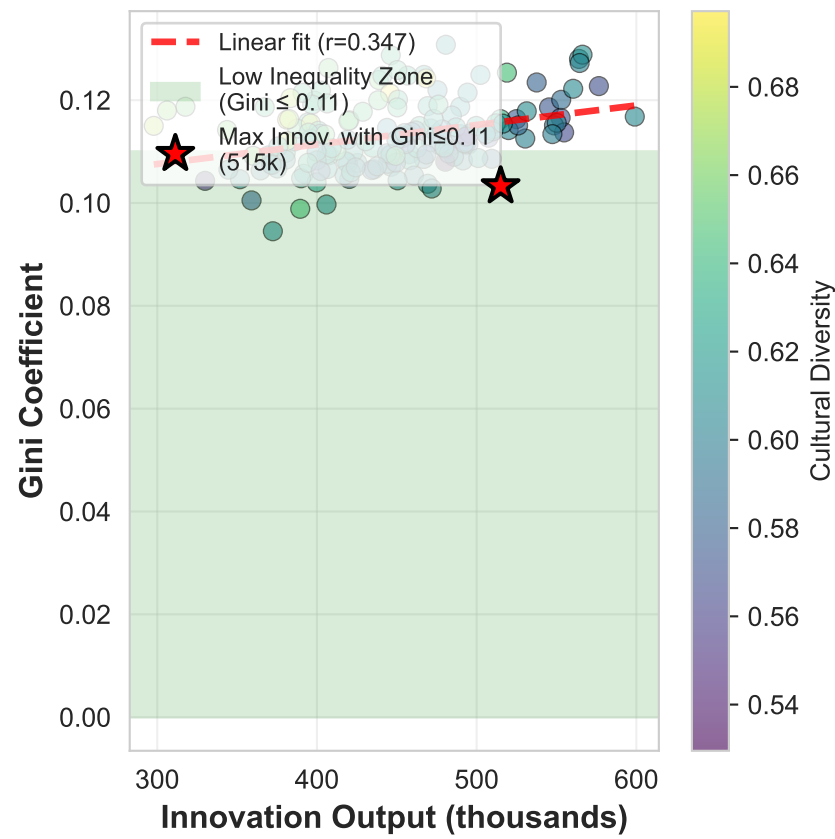
(B) Gini Distribution by Innovation Level

Legend: Gini = 0.11

Q1 (Low): 0.111
Q2 (Mid-Low): 0.112
Q3 (Mid-High): 0.114
Q4 (High): 0.116

X-axis: **Innovation Quartile**
Y-axis: **Gini Coefficient**
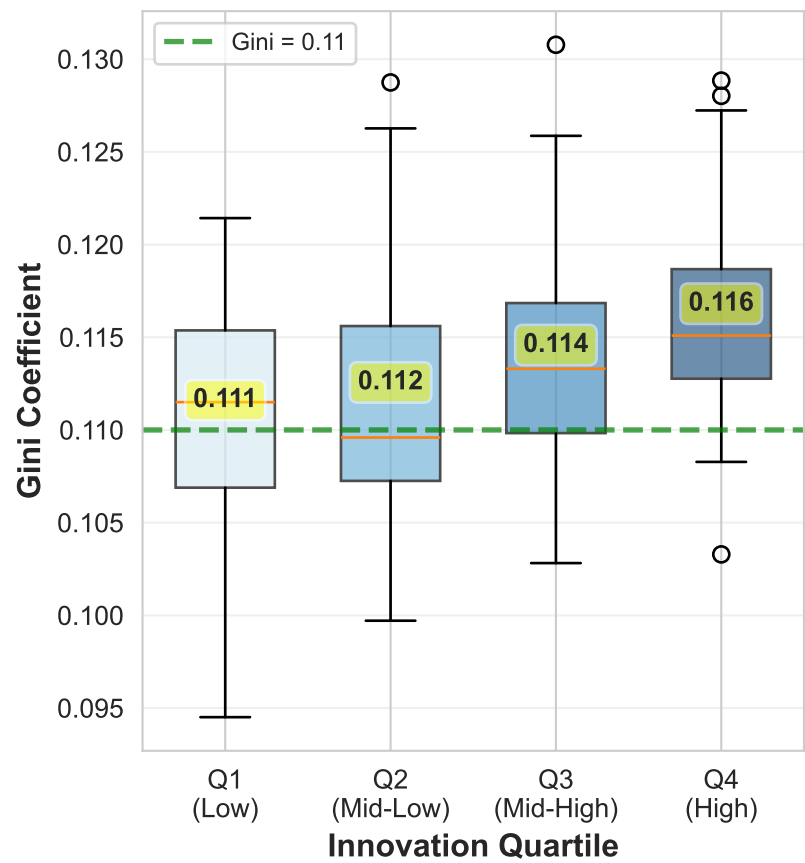
(C) Statistical Summary

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KEY FINDINGS

Correlation Innovation-Gini: +0.347
(weak positive relationship)
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PRACTICAL EFFECT:

Q1 (Low) → Q4 (High):
   Innovation: +39%
   Gini: +4.7%

Innovation DOUBLES while
Gini increases by only 5%!
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GINI RANGE (all solutions):
   Min: 0.095
   Max: 0.131
   Range: 0.036

All Pareto solutions maintain
LOW INEQUALITY (Gini < 0.13)
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HIGH INNOVATION + LOW GINI:

Solutions with Gini ≤ 0.11: 58
Max innovation: 515k
% of global max: 86.0%

86% of max innovation achievable
with low inequality!
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CONCLUSION:

✓ Weak Innovation-Equity tradeoff
✓ Structural stabilizers present
✓ High performance compatible
  with low inequality
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